

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	752	(546/112).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/07/10 14:10
S1	2	("6861436").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/07/10 11:33
S2	4	((("6362191") or ("20030153759")).PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/07/10 14:10

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Welcome to STN International! Enter x:x

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006  
NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered  
NEWS 5 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records  
NEWS 6 MAY 11 KOREAPAT updates resume  
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and  
USPATFULL/USPAT2  
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS  
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in  
INPADOC  
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and  
and display fields  
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL  
NEWS 13 JUL 07 Coverage of Research Disclosure reinstated in DWPI  
  
NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8  
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FILE 'HOME' ENTERED AT 11:03:26 ON 10 JUL 2006

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 11:03:38 ON 10 JUL 2006

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FILE COVERS 1907 - 10 Jul 2006 VOL 145 ISS 3  
FILE LAST UPDATED: 9 Jul 2006 (20060709/ED)

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=> s us20040152897

L1 0 US20040152897

=> s us20040152897/pn

L2 1 US20040152897/PN  
(US2004152897/PN)

=> d

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:252511 CAPLUS  
 DN 140:287263  
 TI Synthesis of 3-acylindolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with sterically hindered reagents, and their use as intermediates in the preparation of 1-glyoxylamide indolizines  
 IN Sun, Lijun; Koya, Keizo; Xia, Zhi-qiang; Przewlaka, Teresa; Zhang, Shijie;  
 Ono, Mitsunori  
 PA Synta Pharmaceuticals Corp., USA  
 SO PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004024727	A2	20040325	WO 2003-US28252	20030910
WO 2004024727	A3	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2496764 A1 20040325 CA 2003-2496764 20030910 AU 2003267071 A1 20040430 AU 2003-267071 20030910 EP 1537105 A2 20050608 EP 2003-749545 20030910 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK CN 1681813 A 20051012 CN 2003-821740 20030910 JP 2006504692 T2 20060209 JP 2004-536391 20030910 US 2004152897 A1 20040805 US 2003-660358 20030911 <-- NO 2005001009 A 20050404 NO 2005-1009 20050224 PRAI US 2002-410679P P 20020913 WO 2003-US28252 W 20030910 OS MARPAT 140:287263				

=> select 12  
ENTER ANSWER NUMBER OR RANGE (1-):1  
ENTER DISPLAY CODE (TI) OR ?:rn  
E1 THROUGH E40 ASSIGNED

=> fil reg	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	5.58	5.79

FILE 'REGISTRY' ENTERED AT 11:04:06 ON 10 JUL 2006  
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STRUCTURE FILE UPDATES: 9 JUL 2006 HIGHEST RN 891170-23-3  
DICTIONARY FILE UPDATES: 9 JUL 2006 HIGHEST RN 891170-23-3

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on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s e1-e40

1 109-06-8/BI  
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1 1443-80-7/BI  
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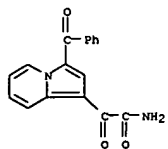
L3

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I OR 675139-19-2/BI OR 675139-20-5/BI OR 675139-21-6/BI OR 675139-22-7/BI OR 675139-23-8/BI OR 675139-24-9/BI OR 675139-25-0/BI OR 675139-26-1/BI OR 675139-27-2/BI OR 675139-28-3/BI OR 675139-29-4/BI OR 675139-30-7/BI OR 675139-31-8/BI OR 675139-32-9/BI OR 675139-33-0/BI OR 675139-34-1/BI OR 675139-35-2/BI OR 675139-36-3/BI OR 675139-37-4/BI OR 675139-38-5/BI OR 675139-39-6/BI OR 675139-40-9/BI OR 675139-41-0/BI OR 68-12-2/BI OR 77-78-1/BI)

=> d 13

L3 ANSWER 1 OF 40 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 675139-41-0 REGISTRY  
ED Entered STN: 14 Apr 2004  
CN 1-Indolizineacetamide, 3-benzoyl- $\alpha$ -oxo- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C17 H12 N2 O3  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)



=> d scan

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (4-chlorophenyl)(7-methoxy-3-indoliziny)- (9CI)  
 MF C16 H12 Cl N O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

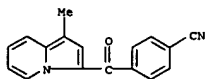
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):39

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 4-[(7-chloro-3-indoliziny)carbonyl]- (9CI)  
 MF C16 H9 Cl N2 O



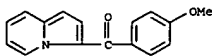
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 4-[(1-methyl-3-indoliziny)carbonyl]- (9CI)  
 MF C17 H12 N2 O



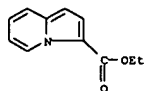
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, 3-indoliziny(4-methoxyphenyl)- (9CI)  
 MF C16 H13 N O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 3-Indolizinecarboxylic acid, ethyl ester (9CI)  
 MF C11 H11 N O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Sulfuric acid, dimethyl ester (8CI, 9CI)  
 MF C2 H6 O4 S  
 CI COM



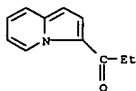
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (4-fluorophenyl)(7-methoxy-3-indoliziny)- (9CI)  
 MF C16 H12 F N O2



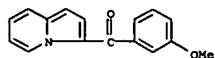
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 1-Propanone, 1-(3-indoliziny)- (9CI)  
 MF C11 H11 N O



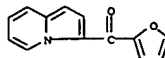
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, 3-indoliziny1(3-methoxyphenyl)- (9CI)  
 MF C16 H13 N O2



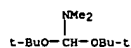
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, 2-furanyl-3-indoliziny1- (9CI)  
 MF C13 H9 N O2



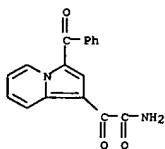
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanamine, 1,1-bis(1,1-dimethylethoxy)-N,N-dimethyl- (9CI)  
 MF C11 H25 N O2



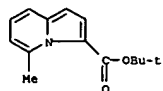
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 1-Indolizineacetamide, 3-benzoyl-α-oxo- (9CI)  
 MF C17 H12 N2 O3



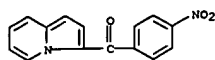
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 3-Indolizinecarboxylic acid, 5-methyl-, 1,1-dimethylethyl ester (9CI)  
 MF C14 H17 N O2



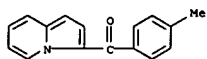
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, 3-indoliziny1(4-nitrophenyl)- (9CI)  
 MF C15 H10 N2 O3



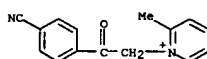
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
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 MF C16 H13 N O



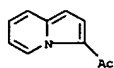
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Pyridinium, 1-[2-(4-cyanophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)  
 MF C15 H13 N2 O . Br



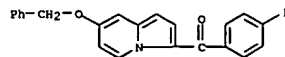
● Br<sup>-</sup>

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Ethanone, 1-(3-indoliziny)- (9CI)  
 MF C10 H9 N O



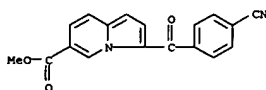
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (4-fluorophenyl)[7-(phenylmethoxy)-3-indoliziny]- (9CI)  
 MF C22 H16 F N O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 6-Indolizinecarboxylic acid, 3-(4-cyanobenzoyl)-, methyl ester (9CI)  
 MF C18 H12 N2 O3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 4-([6-ethyl-3-indoliziny]carbonyl)- (9CI)  
 MF C18 H14 N2 O



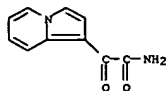
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (4-chlorophenyl)-3-indoliziny- (9CI)  
 MF C15 H10 Cl N O



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 1-indolizineacetamide,  $\alpha$ -oxo- (9CI)  
 MF C10 H8 N2 O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Pyridine, 2-methyl- (9CI)  
 MF C6 H7 N  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (7-chloro-3-indoliziny) (4-fluorophenyl)- (9CI)  
 MF C15 H9 Cl F N O



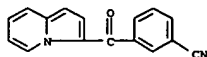
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (7-chloro-3-indoliziny1)(4-chlorophenyl)- (9CI)  
 MF C15 H9 Cl2 N O



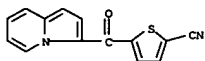
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 3-(3-indoliziny1carbonyl)- (9CI)  
 MF C16 H10 N2 O



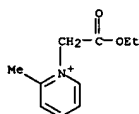
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 2-Thiophenecarbonitrile, 5-(3-indoliziny1carbonyl)- (9CI)  
 MF C14 H8 N2 O S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI)  
 MF C10 H14 N O2 . Br

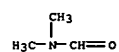


● Br<sup>-</sup>

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*



L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Formamide, N,N-dimethyl- (8CI, 9CI)  
 MF C3 H7 N O  
 CI COH



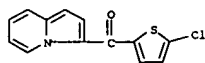
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (7-fluoro-3-indoliziny1)(4-fluorophenyl)- (9CI)  
 MF C15 H9 F2 N O



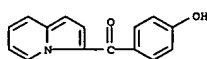
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (5-chloro-2-thienyl)-3-indoliziny1- (9CI)  
 MF C13 H8 Cl N O S



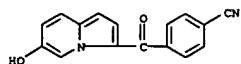
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (4-hydroxyphenyl)-3-indoliziny1- (9CI)  
 MF C15 H11 N O2



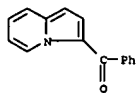
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 4-[(6-hydroxy-3-indoliziny]carbonyl]- (9CI)  
 MF C16 H10 N2 O2



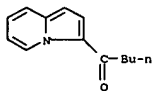
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, 3-indolizinyphenyl- (9CI)  
 MF C15 H11 N O



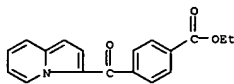
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN 1-Pentanone, 1-(3-indoliziny]- (9CI)  
 MF C13 H15 N O



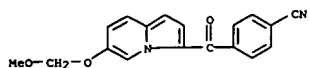
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzoic acid, 4-(3-indoliziny]carbonyl]-, ethyl ester (9CI)  
 MF C18 H15 N O3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 4-[[6-(methoxymethoxy)-3-indoliziny]carbonyl]- (9CI)  
 MF C18 H14 N2 O3



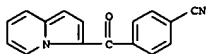
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Methanone, (3,4-dichlorophenyl)-3-indoliziny- (9CI)  
 MF C15 H9 Cl2 N O



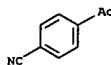
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 4-(3-indoliziny)carbonyl)- (9CI)  
 MF C16 H10 N2 O



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 40 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
 IN Benzonitrile, 4-acetyl- (9CI)  
 MF C9 H7 N O  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> fil stnguide  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.78	8.57

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 11:05:12 ON 10 JUL 2006  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Jul 7, 2006 (20060707/UP).

=> fil casreact  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.06	8.63

FULL ESTIMATED COST

FILE 'CASREACT' ENTERED AT 11:06:03 ON 10 JUL 2006  
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FILE CONTENT:1840 - 9 Jul 2006 VOL 145 ISS 2

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9-10 10-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 9-10 10-11

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS

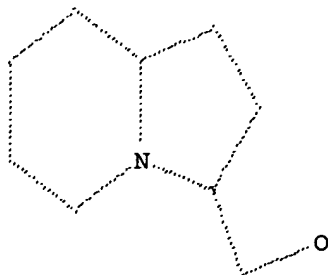
11:CLASS

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



L5                    4 SEA SSS SAM L4 (    14 REACTIONS)

=> s 14 full

FULL SEARCH INITIATED 11:06:29 FILE 'CASREACT'

SCREENING COMPLETE -    180 REACTIONS TO VERIFY FROM            42 DOCUMENTS

100.0% DONE            180 VERIFIED            109 HIT RXNS

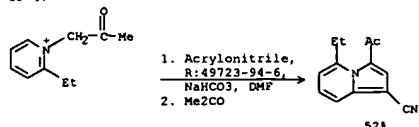
SEARCH TIME: 00.00.01

28 DOCS

L6                    28 SEA SSS FUL L4 (    109 REACTIONS)

=> d 16 1

RX(2) OF 47



Br<sup>-</sup>  
(step 1)

REF: Gaodeng Xuexiao Huaxue Xuebao, 25(8), 1461-1464; 2004  
CON: STAGE(1) 4 - 5 hours, 90 - 95 deg C  
STAGE(2) 0.5 hours, reflux

=> s 16 2-28

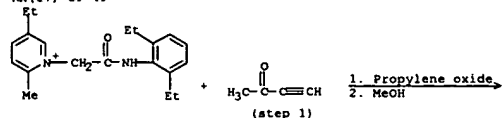
MISSING OPERATOR L6 2-28

The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

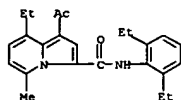
=> d 16 2-28



RX(17) OF 49



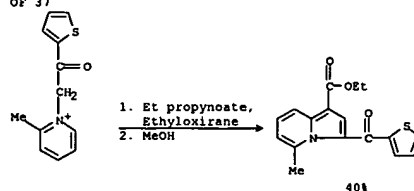
Cl<sup>-</sup>  
(step 1)



26%

REF: ARKIVOC (Gainesville, FL, United States) [online computer file],  
(2), 30-45; 2002  
CON: STAGE(1) 10 - 12 days, room temperature  
STAGE(2) overnight

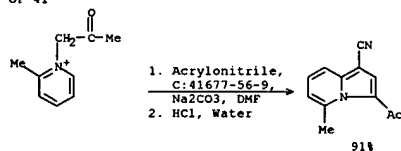
RX(1) OF 37



Br<sup>-</sup>  
(step 1)

REF: Revue Roumaine de Chimie, 2001, 46(4), 357-362; 2002  
CON: STAGE(1) room temperature; 5 - 8 hours, room temperature  
STAGE(2) overnight

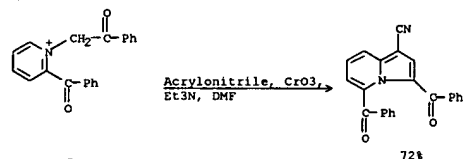
RX(10) OF 41



Br<sup>-</sup>  
(step 1)

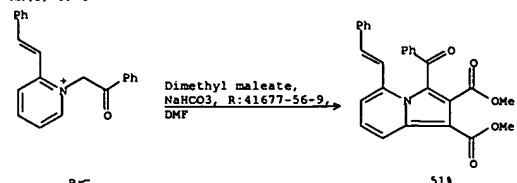
REF: Journal of Heterocyclic Chemistry, 38(4), 853-857; 2001

RX(2) OF 34

Br<sup>-</sup>

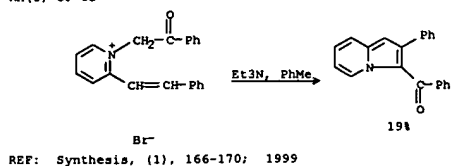
REF: Journal of the Chemical Society, Perkin Transactions 1, (15),  
1820-1825; 2001  
NOTE: regioselective

RX(1) OF 1



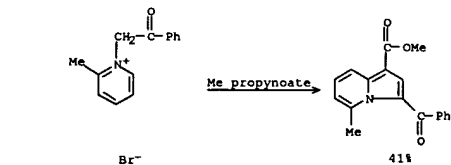
REF: Journal of Chemical Research, Synopses, (2), 136-137; 1999

RX(1) OF 32



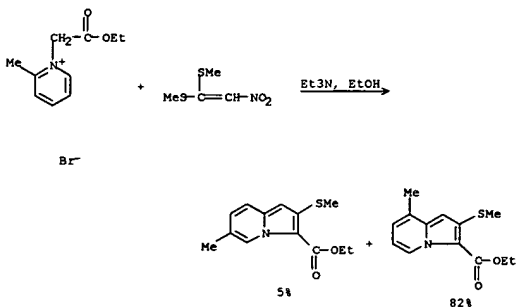
REF: Synthesis, (1), 166-170; 1999

RX(5) OF 21



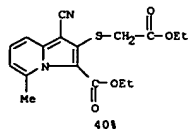
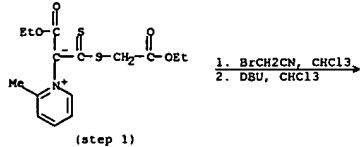
REF: Journal of Heterocyclic Chemistry, 28(1), 45-8; 1991

RX(18) OF 122



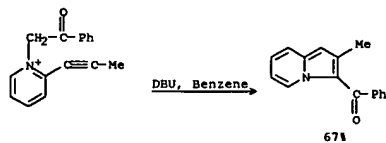
REF: Journal of Heterocyclic Chemistry, 26(2), 477-87; 1989

RX(2) OF 88



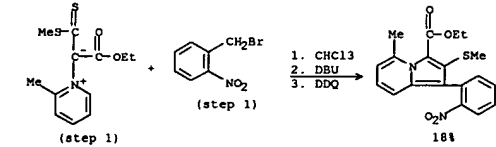
REF: Bulletin of the Chemical Society of Japan, 62(1), 119-27; 1989

RX(1) OF 51



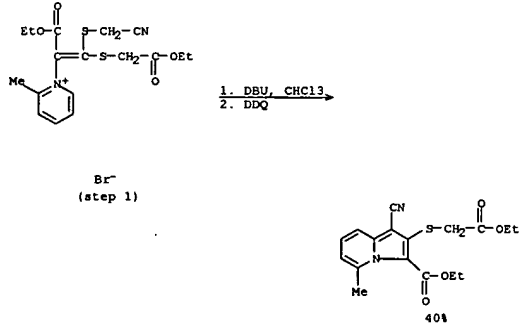
REF: Chemical &amp; Pharmaceutical Bulletin, 36(10), 3826-32; 1988

RX(36) OF 68



REF: Bulletin of the Chemical Society of Japan, 61(6), 2055-61; 1988

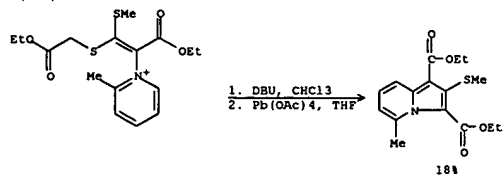
RX(2) OF 18



REF: Chemistry Letters, (10), 2043-6; 1987

L6 ANSWER 14 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

RX(221) OF 270 - 2 STEPS

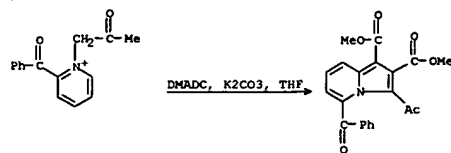


Br<sup>-</sup>

REF: Bulletin of the Chemical Society of Japan, 60(5), 1867-79; 1987

L6 ANSWER 15 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

RX(1) OF 18

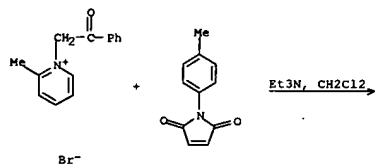


Br<sup>-</sup>

REF: Heterocycles, 26(1), 199-204; 1987

L6 ANSWER 16 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

RX(12) OF 128

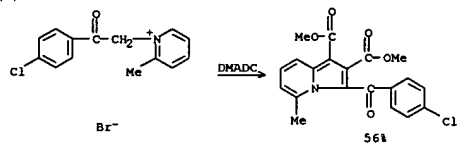


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REF: Bulletin of the Chemical Society of Japan, 58(11), 3137-57; 1985

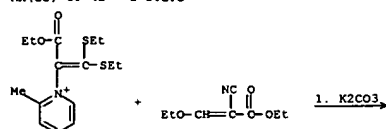
L6 ANSWER 17 OF 28 CASREACT COPYRIGHT 2006 ACS on STN

RX(7) OF 18

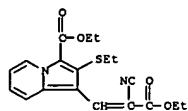


REF: Journal of Chemical and Engineering Data, 30(4), 505-7; 1985

RX(22) OF 42 - 2 STEPS

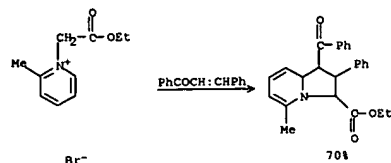


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REF: Journal of Organic Chemistry, 47(2), 369-71; 1982

RX(16) OF 52

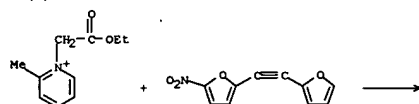


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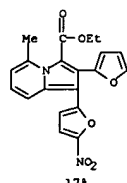
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REF: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999), (4), 1180-5; 1981

RX(9) OF 19



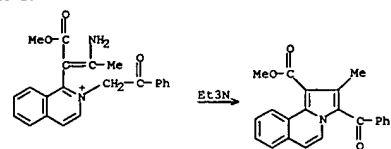
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17%

REF: Chemical & Pharmaceutical Bulletin, 27(12), 3078-85; 1979

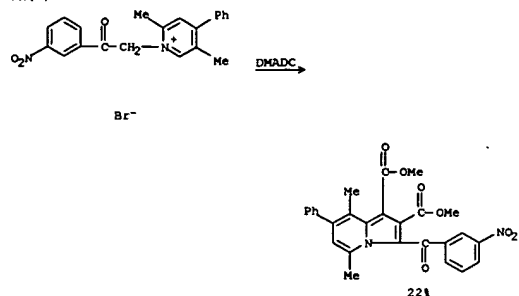
RX(3) OF 10



Br<sup>-</sup>

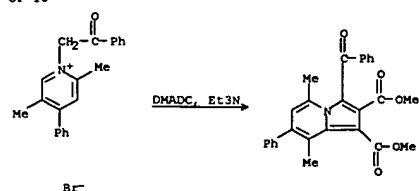
REF: Bulletin of the Chemical Society of Japan, 53(1), 297-8; 1980

RX (9) OF 20



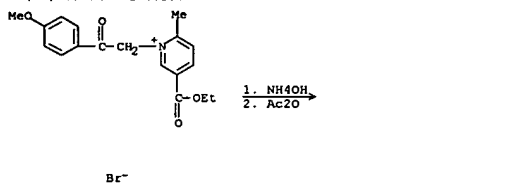
REF: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya, 22(10), 1197-201; 1979

RX (1) OF 18



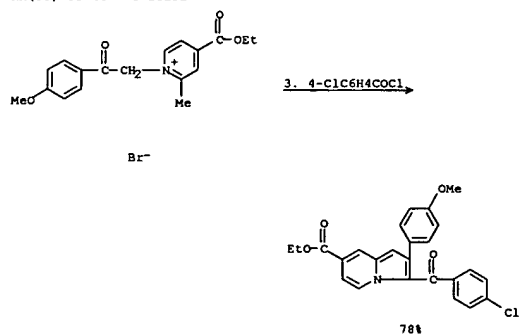
REF: Khimiya Geterotsiklicheskikh Soedinenii, (6), 794-8; 1979

RX (45) OF 94 - 2 STEPS



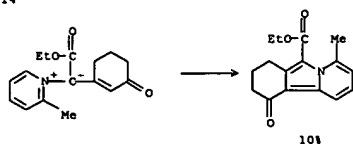
REF: Khimiya Geterotsiklicheskikh Soedinenii, (2), 209-14; 1976

RX (35) OF 46 - 3 STEPS



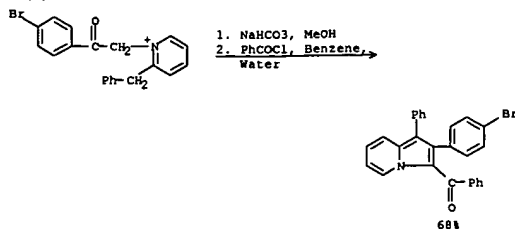
REF: Khimiya Geterotsiklicheskikh Soedinenii, (3), 348-51; 1976

RX(6) OF 14



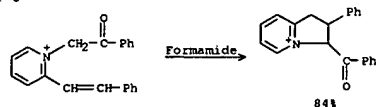
REF: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999), (6), 575-9; 1975

RX(3) OF 3 - 2 STEPS



REF: Journal of Pharmaceutical Sciences, 52(9), 868-71; 1963  
 NOTE: 1) Classification: Heterocycle formation; Condensation; Isomerisation; Cyclisation; # Conditions: NaHCO<sub>3</sub> MeOH; Rf 3h; # Comments: table included; reactant as bromide, 2) Classification: C-Acylation; Regioselective; # Conditions: 40 deg 30mn; benzene 20 deg 60h; water bath 1h; NaOH H<sub>2</sub>O 20 deg

RX(1) OF 5



REF: Angew. Chem., 74,, 811-17; 1962  
 NOTE: Classification: Heterocycle formation; Addition; Cyclisation; C-Alkylation; # Conditions: HCONH<sub>2</sub> 1mn 200 deg; # Comments: product as C<sub>6</sub>H<sub>9</sub>O<sub>3</sub><sup>-</sup> salt

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

188.14

196.77

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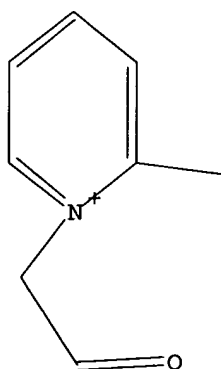


L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

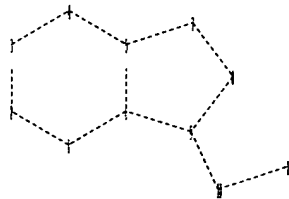
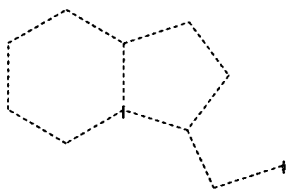
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SAMPLE SEARCH INITIATED 11:07:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 453 TO ITERATE

100.0% PROCESSED 453 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

50 ANSWERS



chain nodes :

10 11

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

9-10 10-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 9-10 10-11

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS

11:CLASS

BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 75622 TO 83178  
PROJECTED ANSWERS: 8774 TO 11472

L12 50 SEA SSS SAM L11

=> s l11 full  
FULL SEARCH INITIATED 11:08:20 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 79521 TO ITERATE

100.0% PROCESSED 79521 ITERATIONS  
SEARCH TIME: 00.00.01

9550 ANSWERS

L13 9550 SEA SSS FUL L11

=> s l13 and caplus/lc  
51199448 CAPLUS/LC  
L14 5906 L13 AND CAPLUS/LC

=> d his

(FILE 'HOME' ENTERED AT 11:03:26 ON 10 JUL 2006)

FILE 'CAPLUS' ENTERED AT 11:03:38 ON 10 JUL 2006

L1 0 S US20040152897  
L2 1 S US20040152897/PN  
SELECT L2 1 RN

FILE 'REGISTRY' ENTERED AT 11:04:06 ON 10 JUL 2006

L3 40 S E1-E40

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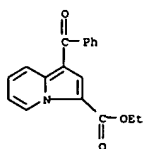
<http://www.cas.org/infopolicy.html>

=> s l10 and l14  
          528 L10  
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L15          99 L10 AND L14

=> d ibib abs hitstr 1-99

L15 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

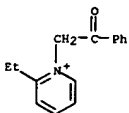
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 AUTHOR(S): Shen, Zhuqing; Chen, Wei; Shen, Yongmiao; Du, Jiangyan; Wang, Bingxiang; Shen, Jian; Hu, Hongwen  
 CORPORATE SOURCE: School of Chemistry and Environmental Science, Nanjing Normal University; Jiangsu Research Center of Biomedical Functional Materials Engineering, Nanjing, Jiangsu Province, 210097, Peop. Rep. China  
 SOURCE: Nanjing Shida Xuebao, Ziran Kexueban (2005), 28(1), 58-61  
 CODEN: NSXZEN; ISSN: 1001-4616  
 PUBLISHER: Nanjing Shida Xuebao Bianjibu  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Chinese  
 AB A series of indolizines were synthesized with pyridinium and alkene through cyclization reaction. Their photophys. properties in ethanol, dichloromethane, toluene and cyclohexane were analyzed by their UV-visible (UV-Vis) absorption and fluorescence spectra. The relationships between their microcosmic structures and corresponding optical properties were investigated. The results showed that the effects of solvent polarity on Stoke's shift, fluorescence intensity and fluorescence quantum field were more evident than that on UV-Vis absorption spectra. The fluorescence properties of indolizines were mainly determined by their chemical structures.  
 IT However, the effects of external factors such as solvent, temperature and pressure should be taken into consideration, too.  
 RN 128352-94-3 CAPLUS  
 CN 3-indolizinecarboxylic acid, 1-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 128352-99-8 CAPLUS  
 CN 1,3-indolizinedicarboxylic acid, 3-ethyl 1-methyl ester (9CI) (CA INDEX NAME)

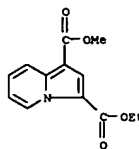
L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:731897 CAPLUS  
 DOCUMENT NUMBER: 142:197802  
 TITLE: Synthesis of 4-methylpyrrolo[2,1,5-cd]indolizines  
 AUTHOR(S): Li, Bin; Fan, Guo-Jun; He, Ting; Hu, Hong-Wen  
 CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China  
 SOURCE: Gaodeng Xuebao Huaxue Xuebao (2004), 25(8), 1461-1464  
 CODEN: KTHPDM; ISSN: 0251-0790  
 PUBLISHER: Gaodeng Jiaoyu Chubanshe  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Chinese  
 OTHER SOURCE(S): CASREACT 142:197802  
 AB Pyrrolo[2,1,5-cd]indolizine is the most interesting member of bicyclo[3,2,2]azine. Its derivs. have received considerable attention in the field of synthetic organic chemical due to their novel structure and properties, increasing biol. interest and because their partially saturated frameworks occur in natural products. Over recent years the [8+2] cycloaddn. of indolizine with an electron-deficient acetylene has been frequently employed for this purpose. In this paper we reported the synthesis of 5-methylpyrrolo[2,1,5-cd]indolizines starting from *o*-Et pyridine, which was converted at first to 3-acetyl-5-Et indolizines by 1,3-dipolar cycloaddn. of the corresponding pyridinium ylide with electron-deficient olefines and then the indolizines were transformed to pyrrolo[2,1,5-cd]indolizines by intramol. condensation between the 3-acetyl and the 5-Et groups.  
 IT 5994-36-5P 839698-05-4P 839698-06-5P  
 839698-07-6P 839698-08-7P 839698-09-8P  
 839698-10-1P 839698-11-2P 839698-12-3P  
 839698-13-4P 839698-14-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of methylpyrroloindolizines)  
 RN 5994-36-5 CAPLUS  
 CN Pyridinium, 2-ethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

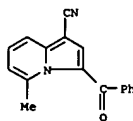


● Br<sup>-</sup>  
 RN 839698-05-4 CAPLUS  
 CN Pyridinium, 2-ethyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

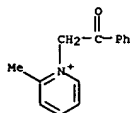
L15 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 154224-60-9 CAPLUS  
 CN 1-Indolizinecarbonitrile, 3-benzoyl-5-methyl- (9CI) (CA INDEX NAME)

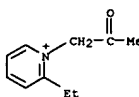


IT 32896-98-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (solvent effects on fluorescence properties of indolizines)  
 RN 32896-98-3 CAPLUS  
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



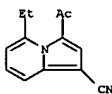
● Br<sup>-</sup>

L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

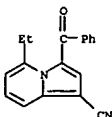


● Br<sup>-</sup>

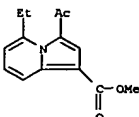
RN 839698-06-5 CAPLUS  
 CN 1-Indolizinecarbonitrile, 3-acetyl-5-ethyl- (9CI) (CA INDEX NAME)



RN 839698-07-6 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-ethyl- (9CI) (CA INDEX NAME)

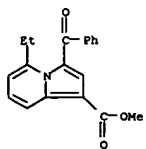


RN 839698-08-7 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-acetyl-5-ethyl-, methyl ester (9CI) (CA INDEX NAME)

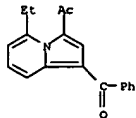


RN 839698-09-8 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-ethyl-, methyl ester (9CI) (CA INDEX NAME)

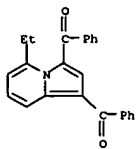
L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



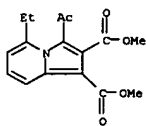
RN 839698-10-1 CAPLUS  
CN Ethanone, 1-(1-benzoyl-5-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 839698-11-2 CAPLUS  
CN Methanone, (5-ethyl-1,3-indolizinediyl)bis(phenyl- (9CI) (CA INDEX NAME)



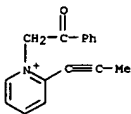
RN 839698-12-3 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-ethyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 839698-13-4 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-ethyl-, dimethyl ester (9CI)

L15 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

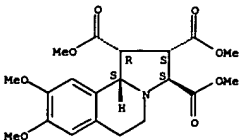
ACCESSION NUMBER: 2004:624086 CAPLUS  
DOCUMENT NUMBER: 142:354747  
TITLE: Product class 11: azomethine ylides  
AUTHOR(S): Eberbach, W.  
CORPORATE SOURCE: Germany  
SOURCE: Science of Synthesis (2004), 27, 441-498  
CODEN: SSCYJ9  
PUBLISHER: Georg Thieme Verlag  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
AB A review. Methods for generating azomethine ylides are reviewed as well as their application to organic synthesis.  
IT 96206-84-7  
RL: RCT (Reactant); RACT (Reactant or reagent) (methods for generating azomethine ylides and application to organic synthesis)  
RN 96206-84-7 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



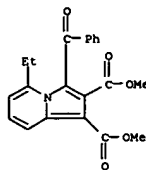
● Br<sup>-</sup>

IT 88081-70-3P 104727-08-4P  
RL: 3PM (Synthetic preparation); PREP (Preparation) (methods for generating azomethine ylides and application to organic synthesis)  
RN 88081-70-3 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 1,2,3,5,6,10b-hexahydro-8,9-dimethoxy-, trimethyl ester, (1R,2S,3S,10bS)-rel- (9CI) (CA INDEX NAME)

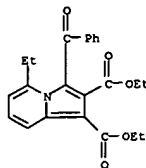
Relative stereochemistry.



L15 ANSWER 2 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



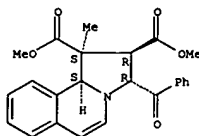
RN 839698-14-5 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-ethyl-, diethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 104727-08-4 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-1-methyl-, dimethyl ester, (1R,2S,3S,10bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 296 THERE ARE 296 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:490446 CAPLUS  
DOCUMENT NUMBER: 141:54191

TITLE: Preparation of  $\alpha$ -oxo-1-indolizineacetamides as tumor necrosis factor (TNF $\alpha$ ) inhibitors for the treatment of inflammatory disorders.  
INVENTOR(S): Ono, Mitsunori; Sun, Lijun; Xia, Zhi Qiang; Li, Hao; Chen, Shojun; Nagai, Masazumi; Lu, Rongzhen

PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO  
DOCUMENT TYPE: Patent

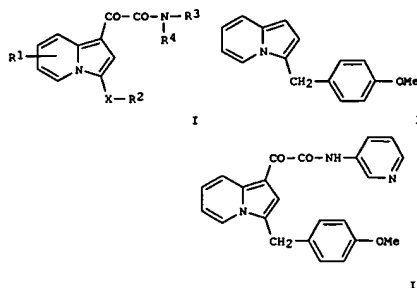
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004116462	A1	20040617	US 2002-319401	20021212
US 2003204090	A1	20031030	US 2003-388332	20030313
CA 2509214	AA	20040701	CA 2003-2509214	20031210
WO 2004054507	A2	20040701	WO 2003-US39303	20031210
WO 2004054507	A3	20050210		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZH, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LJ, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,				
TG				
AU 2003297842	A1	20040709	AU 2003-297842	20031210
EP 1569644	A2	20050907	EP 2003-796912	20031210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006509842	T2	20060323	JP 2005-508315	20031210
PRIORITY APPLN. INFO.:				
			US 2001-322020P	P 20010913
			US 2002-244088	A2 20020913
			US 2002-319401	A2 20021212
			US 2003-388332	A 20030313
			WO 2003-US39303	W 20031210

OTHER SOURCE(S): MARPAT 141:54191  
GI

L15 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

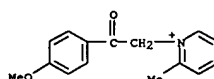


AB Title compds. I (R1 = H, alkyl, alkoxy, etc.; (un)substituted alkoxy, OH, CN, etc.; R3 = H, alkyl; R4 = N-oxy pyridyl, substituted pyridyl, e.g.,

F, Cl, Br, etc.; X = CR'', NR', O, etc.; R', R'' = H, substituted alkoxy, e.g., OH, CN, F, etc.) and their pharmaceutically acceptable salts were prepared. For example, oxalyl chloride acylation of indolizine II, e.g., prepared from 2-methylpyridine in 3-steps, followed by the addition of 3-aminopyridine afforded indolizine III. In human TNF $\alpha$  inhibition assays, 32-examples of compds. I exhibited IC50 values < 5  $\mu$ M and 5-examples showed IC50 values of 10 nM or lower. Compds. I are claimed useful for the treatment of inflammatory disorders.

IT 82746-45-0P 618067-79-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of  $\alpha$ -oxo-1-indolizineacetamides as PDE4 inhibitors for the treatment of inflammatory disorders.)

RN 82746-45-0 CAPLUS  
CN Pyridinium, 1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 618067-79-1 CAPLUS  
CN Methanone, 3-indoliziny(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

L15 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:350189 CAPLUS  
DOCUMENT NUMBER: 142:45034

TITLE: Synthesis and optical properties of indolizines carrying ester groups

AUTHOR(S): Shen, Yongmiao; Gu, Xiaotian; Peng, Yuying; Shen, Zhuying; Yuan, Liangzheng; Li, Chun; Hu, Hongwen; Wang, Bingxiang

CORPORATE SOURCE: School of Chemistry and Environmental Science, Nanjing

SOURCE: Normal University, Nanjing, 210097, Peop. Rep. China  
Nanjing Shida Xuebao, Ziran Kexueban (2003), 26(4), 63-68

CODEN: NSXZEN; ISSN: 1001-4616

PUBLISHER: Nanjing Shida Xuebao Bianjibu  
DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB A series of indolizines were synthesized. The fluorescence spectrum and fluorescence quantum yields of the compds. were examined. The indolizines (3b, 3d, 3e) have high fluorescence quantum yields.

IT 5361-82-0P 128352-99-8P 133619-68-8P  
242131-21-1P 374106-42-0P 374106-43-1P

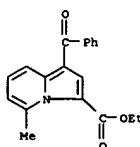
RL: PEP (Physical, engineering or chemical process); PRP (Properties);

PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(preparation and optical properties of indolizines carrying ester groups)

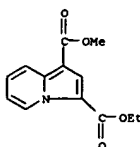
RN 5361-82-0 CAPLUS

CN 3-indolizinecarboxylic acid, 1-benzoyl-5-methyl-, ethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



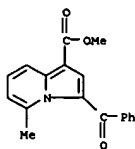
RN 128352-99-8 CAPLUS

CN 1,3-indolizinedicarboxylic acid, 1-benzoyl-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)

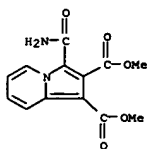


L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

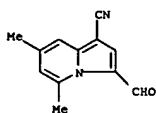
RN 133619-68-8 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 242131-21-1 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-(aminocarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)

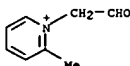


RN 374106-42-0 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-formyl-5,7-dimethyl- (9CI) (CA INDEX NAME)



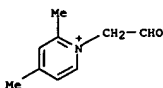
RN 374106-43-1 CAPLUS  
CN 3-Indolizinecarboxaldehyde, 1-benzoyl-5-methyl- (9CI) (CA INDEX NAME)

L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



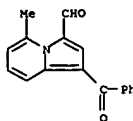
● Br<sup>-</sup>

RN 805325-99-9 CAPLUS  
CN Pyridinium, 2,4-dimethyl-1-(2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)



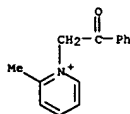
● Br<sup>-</sup>

L15 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



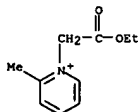
IT 32896-98-3 55814-02-3 805325-98-8  
805325-99-9  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation and optical properties of indolizines carrying ester groups)

RN 32896-98-3 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 55814-02-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 805325-98-8 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

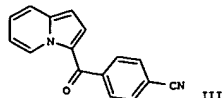
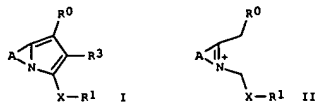
L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:252511 CAPLUS  
DOCUMENT NUMBER: 140:287263  
TITLE: Synthesis of 3-acylindolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with sterically hindered reagents, and their use as intermediates in the preparation of 1-glyoxylamide indolizines  
INVENTOR(S): Sun, Lijun; Koya, Keizo; Xia, Zhi-qiang; Przewlaka, Teresa; Zhang, Shijie; Ono, Mitsunori  
PATENT ASSIGNEE(S): Synta Pharmaceuticals Corp., USA  
SOURCE: PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004024727	A2	20040325	WO 2003-US28252	20030910
WO 2004024727	A3	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, T2, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2496764	AA	20040325	CA 2003-2496764	20030910
AU 2003267071	A1	20040430	AU 2003-267071	20030910
EP 1537105	A2	20050608	EP 2003-749545	20030910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1681813	A	20051012	CN 2003-821740	20030910
JP 2006504692	T2	20060209	JP 2004-536391	20030910
US 2004152897	A1	20040805	US 2003-660358	20030911
NO 2005001009	A	20050404	NO 2005-1009	20050224
PRIORITY APPLN. INFO.:				US 2002-410679P P 20020913
				WO 2003-US28252 W 20030910

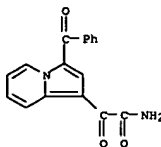
OTHER SOURCE(S): MARPAT 140:287263  
GI



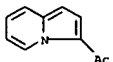


AB The invention is related to a method for preparing 3-acylindolizines I by reacting a substrate II with either the cyclization reagent R<sup>3</sup>C(OR<sup>2</sup>)<sub>2</sub>N(R<sup>4</sup>)<sub>2</sub> or, a reagent prepared by reaction of R<sup>3</sup>C(:)N(R<sup>4</sup>)<sub>2</sub> with an alkylating agent [A = (un)substituted aryl; X = covalent bond, or C(:O), S(:O), SO<sub>2</sub>, NH and derivs., (un)substituted methylene; R<sup>0</sup> = H, halo, CN, CO<sub>2</sub>H and derivs., C(:OH) and derivs., CONH<sub>2</sub> and derivs., SO<sub>2</sub>H and derivs., SO<sub>2</sub>NH<sub>2</sub> and derivs., (un)substituted aliphatic, aryl, non-aromatic heterocyclyl; R<sup>1</sup> = H, CN, OH and derivs., SH and derivs., NH<sub>2</sub> and derivs., (un)substituted aliphatic, aryl, non-aromatic heterocyclyl; R<sup>2</sup> = independently (un)substituted aliphatic, aryl, or both R<sup>2</sup> = linking group; R<sup>3</sup> = H, (un)substituted aryl; or an electron-withdrawing, or electron-donating group provided that if R<sup>3</sup> = H, at least one R<sup>2</sup> = secondary or tertiary alkyl, (un)substituted aryl; R<sup>4</sup> = independently H, (un)substituted aliphatic, aryl; or R<sup>4</sup>NR<sup>4</sup> = (un)substituted heterocyclyl]. The advantages include high yields in the 3-acylindolizine, absence of 2-acylindolizine byproduct, and an environmental-friendly process. The invention is also directed to the use of I in the preparation of pharmacol. active 1-glyoxyamide indolizines III by further acylation of I with oxalyl chloride or a synthetic equivalent, and reaction with amines [8 = (un)substituted ring or fused to an aryl group; R<sup>5</sup>, R<sup>6</sup> = independently H, (un)substituted aliphatic, non-aromatic heterocyclyl, aryl, provided that R<sup>5</sup> or R<sup>6</sup> are not both H, or NR<sup>5</sup>R<sup>6</sup> = (un)substituted non-aromatic heterocyclyl, aryl; R<sup>1</sup>, R<sup>2</sup>, X defined as above]. For example, 4-[(Indolizin-3-yl)carbonyl]benzonitrile was prepared by cyclization of IV=Br- with N,N-dimethylformamide

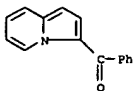
L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)  
 di-tert-butylacetal in DMF.  
 IT 675139-41-0DDP, derivs.  
 RL: IPWJ (Preparation, unclassified); PREP (Preparation)  
 of (1-glyoxyamide indolizine; synthesis of indolizines via cyclization  
 of 2-methyl-1-phenacylpyridinium halides with amidoacetals)  
 RN 675139-41-0 CAPLUS  
 CN 1-Indolizineacetamide, 3-benzoyl- $\alpha$ -oxo- (9CI) (CA INDEX NAME)



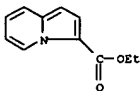
IT 25314-91-4P, 1-(Indolizin-3-yl)ethanone 25314-92-5P  
 55814-14-7P 501948-42-1P, 4-[(Indolizin-3-yl)carbonyl]benzonitrile 501948-52-3P, 4-[(6-Hydroxyindolizin-3-yl)carbonyl]benzonitrile 501948-53-4P, (Furan-2-yl)(indolizin-3-yl)methanone 501948-54-5P, 5-[(Indolizin-3-yl)carbonyl]thiophene-2-carbonitrile 618067-79-1P, (Indolizin-3-yl)(4-methoxyphenyl)methanone 675139-18-1P, (4-Chlorophenyl)indolizin-3-ylmethanone 675139-19-2P, (3,4-Dichlorophenyl)indolizin-3-ylmethanone 675139-20-5P, (Indolizin-3-yl)(4-methylphenyl)methanone 675139-21-6P, (4-Hydroxyphenyl)indolizin-3-ylmethanone 675139-22-7P, (Indolizin-3-yl)(3-methoxyphenyl)methanone 675139-23-8P, 3-[(Indolizin-3-yl)carbonyl]benzonitrile 675139-24-9P, 4-[(1-Methylindolizin-3-yl)carbonyl]benzonitrile 675139-25-0P, 4-[(6-Ethylindolizin-3-yl)carbonyl]benzonitrile 675139-26-1P, 4-[(6-Methoxymethylindolizin-3-yl)carbonyl]benzonitrile 675139-27-2P, (Indolizin-3-yl)(4-nitrophenyl)methanone 675139-28-3P, (5-Chlorothiophen-2-yl)indolizin-3-ylmethanone 675139-29-4P, 1-(Indolizin-3-yl)propan-1-one 675139-30-7P, (7-Chloroindolizin-3-yl)(4-chlorophenyl)methanone 675139-31-8P, (7-Chloroindolizin-3-yl)(4-cyanophenyl)methanone 675139-32-9P, 3-(4-Cyanobenzoyl)indolizine-6-carboxylic acid methyl ester 675139-33-0P, 4-[(Indolizin-3-yl)carbonyl]benzoic acid ethyl ester 675139-34-1P, 5-Methylindolizine-3-carboxylic acid tert-butyl ester 675139-35-2P, (7-Fluoroindolizin-3-yl)(4-fluorophenyl)methanone 675139-36-3P, (4-Fluorophenyl)(7-methoxyindolizin-3-yl)methanone 675139-37-4P, (7-Chloroindolizin-3-yl)(4-fluorophenyl)methanone 675139-38-5P, (4-Chlorophenyl)(7-methoxyindolizin-3-yl)methanone 675139-39-6P, (7-Benzyloxyindolizin-3-yl)(4-fluorophenyl)methanone 675139-40-9P, 1-(Indolizin-3-yl)pentan-1-one (Preparation)  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (indolizine product; synthesis of indolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with amidoacetals)  
 RN 25314-91-4 CAPLUS  
 CN Ethanone, 1-(3-indolizinyl)- (9CI) (CA INDEX NAME)



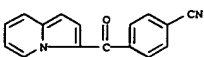
RN 25314-92-5 CAPLUS  
 CN Methanone, 3-indolizinyphenyl- (9CI) (CA INDEX NAME)



RN 55814-14-7 CAPLUS  
 CN 3-indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



RN 501948-42-1 CAPLUS  
 CN Benzonitrile, 4-(3-indoliziny carbonyl)- (9CI) (CA INDEX NAME)



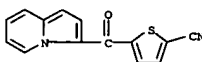
RN 501948-52-3 CAPLUS  
 CN Benzonitrile, 4-[(6-hydroxy-3-indoliziny)carbonyl]- (9CI) (CA INDEX NAME)



RN 501948-53-4 CAPLUS  
 CN Methanone, 2-furanyl-3-indoliziny- (9CI) (CA INDEX NAME)



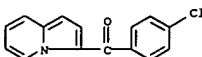
RN 501948-54-5 CAPLUS  
 CN 2-Thiophenecarbonitrile, 5-(3-indoliziny carbonyl)- (9CI) (CA INDEX NAME)



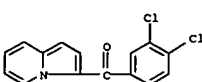
RN 618067-79-1 CAPLUS  
 CN Methanone, 3-indoliziny(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 675139-18-1 CAPLUS  
 CN Methanone, (4-chlorophenyl)-3-indoliziny- (9CI) (CA INDEX NAME)



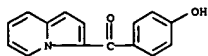
RN 675139-19-2 CAPLUS  
 CN Methanone, (3,4-dichlorophenyl)-3-indoliziny- (9CI) (CA INDEX NAME)



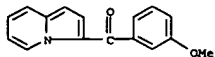
RN 675139-20-5 CAPLUS  
 CN Methanone, 3-indoliziny(4-methylphenyl)- (9CI) (CA INDEX NAME)



L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 675139-21-6 CAPLUS  
 CN Methanone, (4-hydroxyphenyl)-3-indoliziny- (9CI) (CA INDEX NAME)



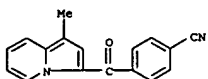
RN 675139-22-7 CAPLUS  
 CN Methanone, 3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



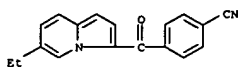
RN 675139-23-8 CAPLUS  
 CN Benzonitrile, 3-[(3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 675139-24-9 CAPLUS  
 CN Benzonitrile, 4-[(1-methyl-3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 675139-25-0 CAPLUS  
 CN Benzonitrile, 4-[(6-ethyl-3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)

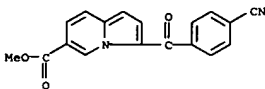


RN 675139-26-1 CAPLUS  
 CN Benzonitrile, 4-[(6-methoxymethoxy)-3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)

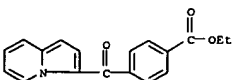
L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



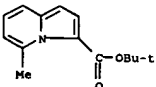
RN 675139-32-9 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-(4-cyanobenzoyl)-, methyl ester (9CI) (CA INDEX NAME)



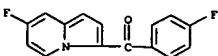
RN 675139-33-0 CAPLUS  
 CN Benzoic acid, 4-(3-indoliziny-3-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 675139-34-1 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 5-methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

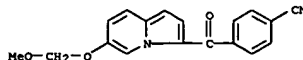


RN 675139-35-2 CAPLUS  
 CN Methanone, (7-fluoro-3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)

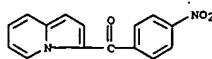


RN 675139-36-3 CAPLUS  
 CN Methanone, (4-fluorophenyl)-7-methoxy-3-indoliziny- (9CI) (CA INDEX NAME)

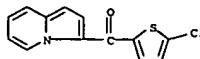
L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



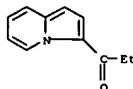
RN 675139-27-2 CAPLUS  
 CN Methanone, 3-indoliziny-4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 675139-28-3 CAPLUS  
 CN Methanone, (5-chloro-2-thienyl)-3-indoliziny- (9CI) (CA INDEX NAME)



RN 675139-29-4 CAPLUS  
 CN 1-Propanone, 1-(3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 675139-30-7 CAPLUS  
 CN Methanone, (7-chloro-3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)

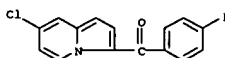


RN 675139-31-8 CAPLUS  
 CN Benzonitrile, 4-[(7-chloro-3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)

L15 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



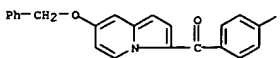
RN 675139-37-4 CAPLUS  
 CN Methanone, (7-chloro-3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



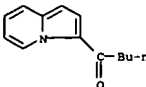
RN 675139-38-5 CAPLUS  
 CN Methanone, (4-chlorophenyl)-7-methoxy-3-indoliziny- (9CI) (CA INDEX NAME)



RN 675139-39-6 CAPLUS  
 CN Methanone, (4-fluorophenyl)-7-(phenylmethoxy)-3-indoliziny- (9CI) (CA INDEX NAME)



RN 675139-40-9 CAPLUS  
 CN 1-Pentanone, 1-(3-indoliziny-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



IT 501948-51-2P, 2-Methyl-1-[[[(4-cyanophenyl)carbonyl]methyl]pyridinium bromide  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate: synthesis of indolizines via cyclization of 2-methyl-1-phenacylpyridinium halides with amidoacetals)

Cc1cccc[n+]1C(=O)c2ccc(C#N)cc2

● Br<sup>-</sup>

CCOC(=O)CN1C=CC=C(C)C1 $\bullet \text{Br}^-$ 

115 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2003:887680 CAPLUS  
 DOCUMENT NUMBER: 139:364844  
 TITLE: Preparation of indolizines as sPLA2 inhibitors  
 INVENTOR(S): Dillard, Robert D.; Hagishita, Sanji; Ohtani,  
 Mitsuaki  
 PATENT ASSIGNEE(S): Eli Lilly and Company, USA; Shionogi and Company, Ltd.  
 SOURCE: U.S. 62 pp., Cont.-in-part of U.S. Ser. No. 278,445.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6645976	B1	20031111	US 1997-765566	19970428
WO 9903383	A1	19960208	WO 1995-US9381	19950720
L: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GE, GB, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, HG, MN, MG, MK, MX, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, YU, YU, YU, YU, YU, RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1994-278445	A2 19940721
			WO 1995-US9381	W 19950720

OTHER SOURCE(S) : MARPAT 139:364844  
GI

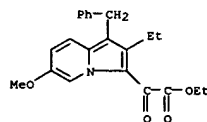
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I, II, III [wherein X = O or S; R11 = independently H, alkyl, or halo; R12 = H, halo, (cyclo)alkyl, cycloalkenyl, alkoxy, alkylthio, or a non-interfering substituent having 1-3 atoms other than H;

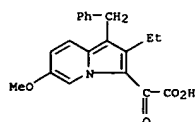
R13 = (un)substituted alkyl, alkenyl, alkynyl, (hetero)cyclyl optionally connected by a linking group; R15 and R16 = independently H, non-interfering substituent, or (un)substituted (hetero)cyclyl; R17 and R18 = independently H, non-interfering substituent, or acidic linker;

with the proviso that at least one of R17 and R18 must be an acidic linker; or pharmaceutically acceptable salt, ester, or amide prodrug derivs. thereof), and their 3-acetamide, 3-acetic acid hydrazide, and 3-glyoxylamide analogs were prepared as inhibitors of human secreted phospholipase A2 (sPLA2) mediated release of fatty acids. For example, conversion of 2-methyl-5-methoxypyridine to the anion in THF using lithium diisopropylamide and subsequent reaction with benzonitrile produced 5-methoxy-2-phenacetylpyridine (57.0%). Cyclization of the pyridine derivative with 1-bromo-2-butanone using NaHCO3 in acetone gave the 1-benzoylindolizine (90.7%), which was reduced by LAH to give 1-benzyl-2-ethylmethylpyrrolizidine (94.5%). Cyclization (98.5%) with Et oxalyl chloride in benzene, followed by saponification with LiOH in H2O and

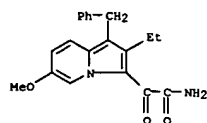
L15 ANSWER 7 OF 95 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)  
177559-27-2P, 8-Benzylxy-3-(cyclophenylcarbonyl)-2-methylindolinize 177559-55-6P, 8-[[[(Carbomethoxy)methyloxy]-2-ethyl-3-(o-phenylbenzyl)]indolinize 177559-56-7P, 8-[[[(Carbomethoxy)methyl]oxy]-3-(cyclohexylcarbonyl)-2-cyclopropylindolinize 177559-63-6P, 3-Benzoyl-2-ethyl-7-methoxyindol 177559-64-7P, 2-Cyclopropyl-7-methoxy-3-(o-phenylbenzyl)indolinize 177559-65-8P, 2-Ethyl-7-methoxy-3-(o-phenylbenzyl)indolinize 177559-66-9P, 3-(Cyclohexylcarbonyl)-2-ethyl-7-methoxyindolinize 177559-88-5P, 8-Benzylxy-1,3-dicarboxy-2-mercaptopindolinize 177559-89-6P, 8-Benzylxy-1,3-dicarboxy-2-methylthioindolinize 182115-66-8P, 8-Benzylxy-1,3-dicarboxy-2-methoxybenzylthioindolinize 181616-1P, 6-Benzylxy-1,3-dicarboxy-2-mercaptopindolinize 622835-95-4P, 622835-97-6P, 8-[8-Benzylxy-2-ethyl-3-(o-phenylbenzyl)indolin-1-yl]ethanol 622836-19-5P, 8-Benzylxy-2-ethyl-3-(1-oxo-2-(4-pentylcyclohexyl)ethyl)indolinize 622836-20-8P, 8-Benzylxy-2-methyl-3-(1-oxo-2-cyclohexylethyl)indolinize 622836-51-5P, 8-Benzylxy-1,3-dicarboxy-2-(2-carboxyethylthio)indolinize 622836-52-6P, Triethyl 6-Benzylxy-1,3-dicarboxy-2-(2-carboxyethylthio)indolinize  
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; prepn. of indolizines as inhibitors of sPLA2 mediated release of fatty acids)  
RN 177559-40-6 CAPLUS  
CN 3-Indolinizineacetic acid, 2-ethyl-6-methoxy- $\alpha$ -oxo-1-(phenylmethyl)-, ethyl ester (SCI) (CA INDEX NAME)



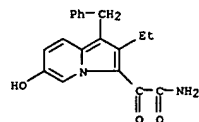
RN 177558-41-7 CAPLUS  
CN 3-Indolizineacetic acid, 2-ethyl-6-methoxy- $\alpha$ -oxo-1-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



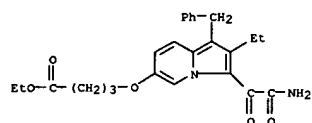
RN 177558-42-8 CAPLUS  
CN 3-Indolizineacetamide, 2-ethyl-6-methoxy- $\alpha$ -oxo-1-(phenylmethyl)-  
(9CI) (CA INDEX NAME)



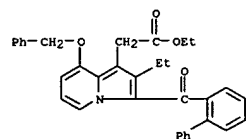
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CN 3-Indolizineacetamide, 2-ethyl-6-hydroxy- $\alpha$ -oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



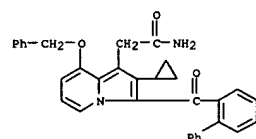
RN 177558-44-0 CAPLUS  
CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]-, ethyl ester (9CI) (CA INDEX NAME)



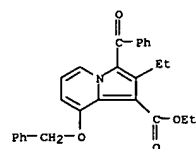
RN 177558-52-0 CAPLUS  
CN 1-Indolizineacetic acid, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



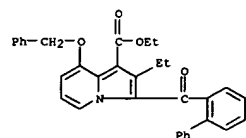
RN 177558-53-1 CAPLUS  
CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-



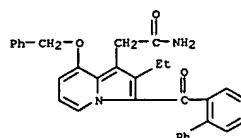
RN 177558-66-6 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



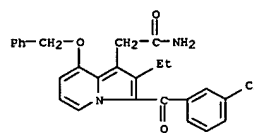
RN 177558-67-7 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



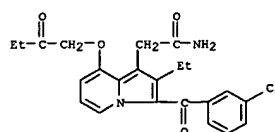
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CN 1-Indolizinecarboxylic acid, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



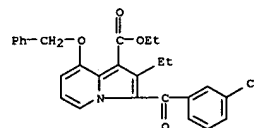
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CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



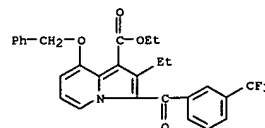
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CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(2-oxobutoxy)- (9CI) (CA INDEX NAME)



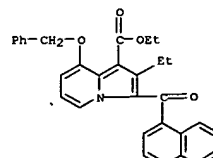
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CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



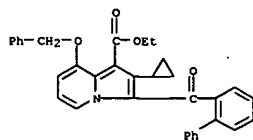
RN 177558-69-9 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-(3-(trifluoromethyl)benzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



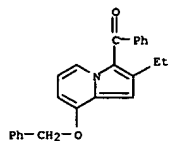
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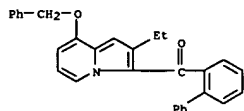
RN 177558-71-3 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



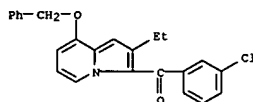
RN 177558-72-4 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



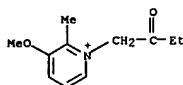
RN 177558-73-5 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 177558-74-6 CAPLUS  
CN Methanone, [3-chlorophenyl] [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

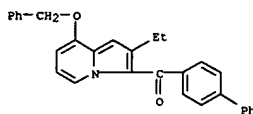


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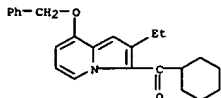


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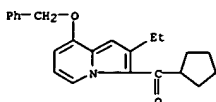
RN 177559-08-9 CAPLUS  
CN Methanone, [1,1'-biphenyl]-4-yl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 177559-09-0 CAPLUS  
CN Methanone, cyclohexyl [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

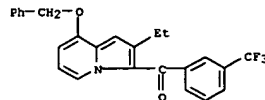


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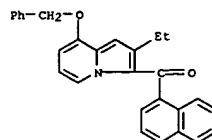


RN 177559-11-4 CAPLUS  
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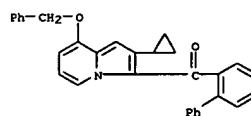
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny] [3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



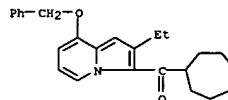
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CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny]-1-naphthalenyl- (9CI) (CA INDEX NAME)



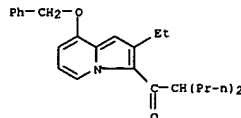
RN 177558-77-9 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl [2-cyclopropyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



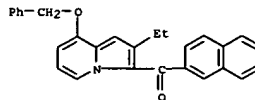
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CN Pyridinium, 3-methoxy-2-methyl-1-(2-oxobutyl)-, bromide (9CI) (CA INDEX NAME)



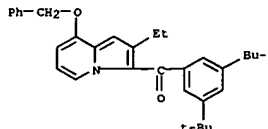
RN 177559-13-6 CAPLUS  
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-propyl- (9CI) (CA INDEX NAME)



RN 177559-14-7 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-naphthalenyl- (9CI) (CA INDEX NAME)

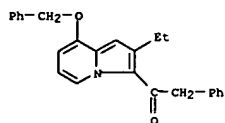


RN 177559-15-8 CAPLUS  
CN Methanone, [3,5-bis(1,1-dimethylethyl)phenyl] [2-ethyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

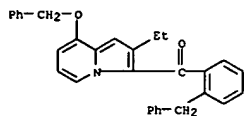


RN 177559-16-9 CAPLUS

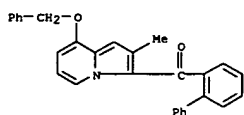
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-phenyl- (9CI)  
 (CA INDEX NAME)



RN 177559-17-0 CAPLUS  
 CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny][2-(phenylmethyl)phenyl]- (9CI) (CA INDEX NAME)

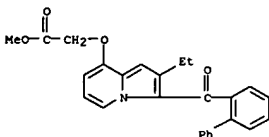


RN 177559-22-7 CAPLUS  
 CN Methanone, [1,1'-biphenyl]-2-yl[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

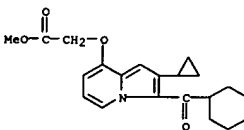


RN 177559-23-8 CAPLUS  
 CN Methanone, [2-cyclopropyl-8-(phenylmethoxy)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)

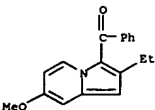
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 177559-56-7 CAPLUS  
 CN Acetic acid, [[3-(cyclohexylcarbonyl)-2-cyclopropyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 177559-63-6 CAPLUS  
 CN Methanone, (2-ethyl-7-methoxy-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

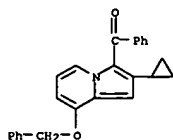


RN 177559-64-7 CAPLUS  
 CN Methanone, [1,1'-biphenyl]-2-yl[2-(2-cyclopropyl-7-methoxy-3-indoliziny)]- (9CI) (CA INDEX NAME)

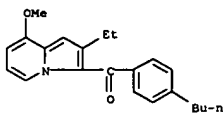


RN 177559-65-8 CAPLUS  
 CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-7-methoxy-3-indoliziny]- (9CI)

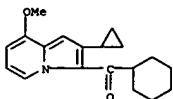
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



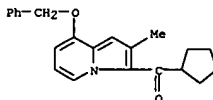
RN 177559-24-9 CAPLUS  
 CN Methanone, (4-butylphenyl)(2-ethyl-8-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 177559-26-1 CAPLUS  
 CN Methanone, cyclohexyl[2-cyclopropyl-8-methoxy-3-indoliziny]- (9CI) (CA INDEX NAME)

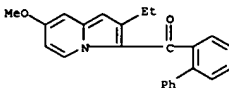


RN 177559-27-2 CAPLUS  
 CN Methanone, cyclopentyl[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

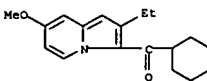


RN 177559-55-6 CAPLUS  
 CN Acetic acid, [[3-((1,1'-biphenyl)-2-ylcarbonyl)-2-ethyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)

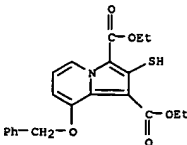
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



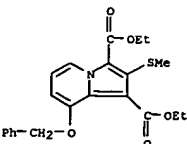
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 CN Methanone, cyclohexyl[2-ethyl-7-methoxy-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 177559-88-5 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

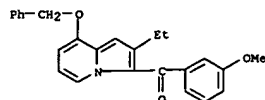


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 CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

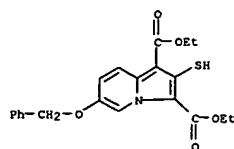


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 CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny](3-methoxyphenyl)-

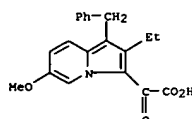
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
(9CI) (CA INDEX NAME)



RN 182116-40-1 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-6-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



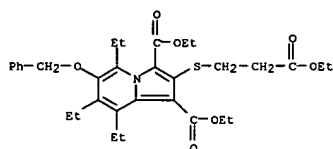
RN 622835-95-4 CAPLUS  
CN 3-Indolizineacetic acid, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)-, lithium salt (9CI) (CA INDEX NAME)



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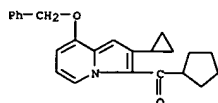
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CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-1-(2-hydroxyethyl)-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
triethyl-6-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



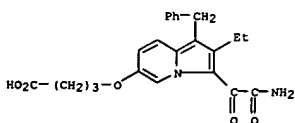
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(sPLA2 inhibitor; preparation of indolizines as inhibitors of sPLA2 mediated release of fatty acids)

RN 622836-34-4 CAPLUS  
CN Methanone, cyclopentyl[2-cyclopropyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)

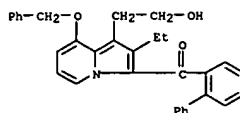


IT 177556-76-2P, 2-[1-Benzyl-6-(3-carboxypropyloxy)-2-ethylindolizine-3-yl]glyoxylamide  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(sPLA2 inhibitor; preparation of indolizines as inhibitors of sPLA2 mediated release of fatty acids)

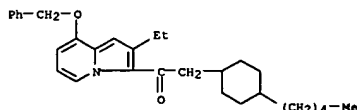
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CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]- (9CI) (CA INDEX NAME)



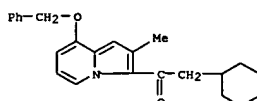
L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



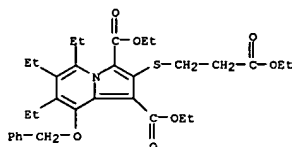
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CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indoliziny]-2-(4-pentylcyclohexyl)- (9CI) (CA INDEX NAME)



RN 622836-20-8 CAPLUS  
CN Ethanone, 2-cyclohexyl-1-[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 622836-51-5 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-5,6,7-triethyl-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



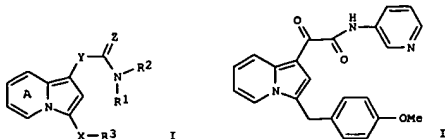
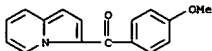
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CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-5,7,8-

L15 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
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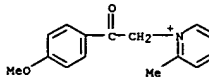
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 DOCUMENT NUMBER: 139:350631  
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 INVENTOR(S): Ono, Mitsunori; Przewlaka, Teresa; James, David; Chimmamada, Dinesh; Lu, Rongzhen; Nagai, Masazumi; Koya, Keizo; Sun, Lijun  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 319,401.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003204090	A1	20031030	US 2003-388332	20030313
US 2003153759	A1	20030814	US 2002-244088	20020913
US 6861436	B2	20050301		
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			US 2002-244088	A2 20020913
			US 2002-319401	A2 20021212
			EP 2002-798231	A3 20020913
			US 2003-388332	A 20030313
			WO 2003-US39303	W 20031210

OTHER SOURCE(S): MARPAT 139:350631  
 GI



AB Title compds. I (wherein ring A = (un)substituted, optionally fused to an aryl group; Y = C(R4R5), NR4, CO, CS, amide, etc.; Z = O, S, NOR12, NR12; R1, R2 = H, (un)aliphatic, heterocycle, aryl, heteroaryl; R3 = aryl, aliphatic; X = bond, C(R4R5), NR4, O, S, CO, etc.; R4R5 = H, aliphatic; R12 = H, alkyl), a pharmaceutically acceptable salt or prodrug thereof, were prepared for treating and preventing cancer, inflammatory disorders, autoimmune diseases and other conditions involving PDE4 or elevated levels of cytokines. Thus, indolizine derivative II was prepared via a multistep synthetic sequence starting from 2-picoline, 2-bromo-1-(4-methoxy-phenyl)-ethanone, oxalyl chloride and 3-aminopyridine. II showed inhibition of human TNF $\alpha$  (IC50 = < 10  $\mu$ M) and inhibition of PDE4 (IC50 = < 5  $\mu$ M).  
 IT 82746-45-0P 618067-79-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (Preparation of indolizine compds. for treating or preventing cancer, inflammatory disorders, autoimmune diseases and other conditions involving PDE4 or elevated levels of cytokines)  
 RN 82746-45-0 CAPLUS  
 CN Pyridinium, 1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



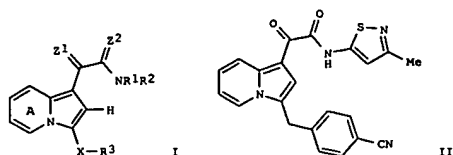
● Br<sup>-</sup>  
 RN 618067-79-1 CAPLUS  
 CN Methanone, 3-indoliziny1(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2003:221687 CAPLUS  
 DOCUMENT NUMBER: 138:238174  
 TITLE: Preparation of 2-(indolizinin-1-yl)-N-(isothiazol-5-yl)-2-oxo-acetamides for treating cancer  
 INVENTOR(S): Koya, Keizo; Sun, Lijun; Ono, Mitsunori; Ying, Weiwen;  
 Li, Hao  
 PATENT ASSIGNEE(S): SBR Pharmaceuticals Corp., USA  
 SOURCE: PCT Int. Appl., 78 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003022846	A1	20030320	WO 2002-US29154	20020913
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2459886	AA	20030320	CA 2002-2459886	20020913
EP 1432709	A1	20040630	EP 2002-798231	20020913
EP 1432709	B1	20050727		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012794	A	20041005	BR 2002-12794	20020913
CN 1568324	A	20050119	CN 2002-820284	20020913
JP 2005504795	T2	20050217	JP 2003-526921	20020913
AT 300542	E	20050815	AT 2002-798231	20020913
PT 1432709	T	20051031	PT 2002-798231	20020913
EP 1598352	A1	20051123	EP 2005-16203	20020913
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
ES 2245747	T3	20060116	ES 2002-2798231	20020913
NO 2004001035	A	20040430	NO 2004-1035	20040311
ZA 2004001996	A	20050531	ZA 2004-1996	20040311
HK 1063322	A1	20051209	HK 2004-106091	20040813
PRIORITY APPL. INFO.:			US 2001-322020P	P 20010913
			EP 2002-798231	A3 20020913
			WO 2002-US29154	W 20020913

OTHER SOURCE(S): MARPAT 138:238174  
 GI

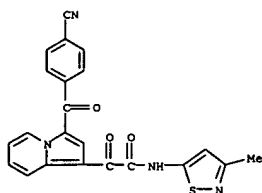




AB The title 1-glyoxylylamide indolizines [I; Ring A is (un)substituted and optionally fused to an aryl group; Z1, Z2 = O, S, N(OR12), NR12; R1, R2 = H, (un)substituted aliphatic group, (un)substituted non-aromatic heterocyclic group, etc.; or NR1R2 = (un)substituted non-aromatic nitrogen-containing heterocyclic group or nitrogen-containing heteroaryl group; R3 = (un)substituted aryl or aliphatic group; X = a bond, CR4R5, NR4, O, etc.; R4, R5 = H, (un)substituted aliphatic group; R12 = H, (un)substituted alkyl], useful in treating a multi-drug resistant cancer, were prepared E.g., multi-step synthesis of II, starting from 4-cyanophenacyl bromide and pyridine, was given. The compound II demonstrated significantly high anti-cancer activity (IC50: 0.01-0.05  $\mu$ M) against seven cancer cell lines from different tissue type, and also high anti-cancer activity (0.02-0.05  $\mu$ M) against two MDR cancer cell lines.

IT 501948-27-2P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 2-(indolizin-1-yl)-N-(isothiazol-5-yl)-2-oxo-acetamides for treating cancer)

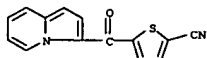
RN 501948-27-2 CAPLUS  
 CN 1-Indolizineacetamide, 3-(4-cyanobenzoyl)-N-(3-methyl-5-isothiazolyl)- $\alpha$ -oxo- (9CI) (CA INDEX NAME)



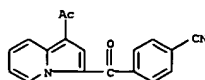
IT 501948-41-0P, 1-Acetyl-3-(4-cyanobenzoyl)indolizine  
 501948-42-1P, 3-(4-Cyanobenzoyl)indolizine 501948-51-2P,



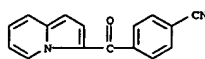
RN 501948-54-5 CAPLUS  
 CN 2-Thiophenecarbonitrile, 5-(3-indolizinyllcarbonyl)- (9CI) (CA INDEX NAME)



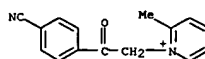
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



RN 501948-42-1 CAPLUS  
 CN Benzonitrile, 4-(3-indolizinyllcarbonyl)- (9CI) (CA INDEX NAME)



RN 501948-51-2 CAPLUS  
 CN Pyridinium, 1-[2-(4-cyanophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

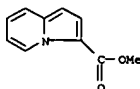
RN 501948-52-3 CAPLUS  
 CN Benzonitrile, 4-((6-hydroxy-3-indolizinyllcarbonyl)- (9CI) (CA INDEX NAME)



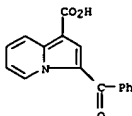
RN 501948-53-4 CAPLUS

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:861066 CAPLUS  
 DOCUMENT NUMBER: 139:117275  
 TITLE: Product class 16: indolizines  
 AUTHOR(S): Shipman, M.  
 CORPORATE SOURCE: School of Chemistry, University of Exeter, Exeter, EX4  
 SOURCE: 4QD, UK  
 Science of Synthesis (2001), 10, 745-787  
 CODEN: SSCYJ9  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 AB A review describes some of the most useful methods for the synthesis of indolizines. The methods described are categorized as synthesis by ring-closure reactions; ring transformation; and substituent modification.  
 IT 22320-25-8 25627-87-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (review of preparation of indolizines and synthetic modification of substituents)

RN 22320-25-8 CAPLUS  
 CN 3-Indolizinecarboxylic acid, methyl ester (8CI, 9CI) (CA INDEX NAME)



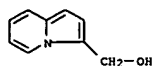
RN 25627-87-6 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



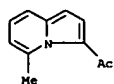
IT 22320-26-9P, 3-Indolizinemethanol 31108-61-9P  
 81071-62-7P 81357-79-1P 115058-11-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (review of preparation of indolizines and synthetic modification of substituents)

RN 22320-26-9 CAPLUS  
 CN 3-Indolizinemethanol (8CI, 9CI) (CA INDEX NAME)

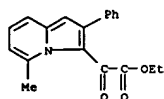
L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



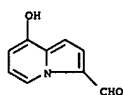
RN 31108-61-9 CAPLUS  
CN Ethanone, 1-(5-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



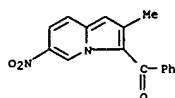
RN 81071-62-7 CAPLUS  
CN 3-Indolizineacetic acid, 5-methyl-α-oxo-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 81357-79-1 CAPLUS  
CN 3-Indolizinecarboxaldehyde, 8-hydroxy- (9CI) (CA INDEX NAME)

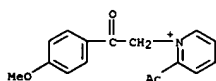


RN 115058-11-2 CAPLUS  
CN Methanone, (2-methyl-6-nitro-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



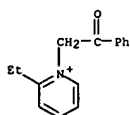
IT 1026-29-5 1822-17-9 3792-44-7

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



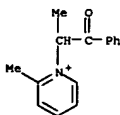
● Br<sup>-</sup>

RN 5994-36-5 CAPLUS  
CN Pyridinium, 2-ethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 6028-81-5 CAPLUS  
CN Pyridinium, 2-methyl-1-(1-methyl-2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

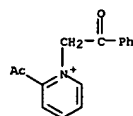
RN 22320-34-9 CAPLUS  
CN Pyridinium, 5-(aminocarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

5994-36-5 6028-81-5 22320-34-9  
60891-71-6 74360-64-8 96206-84-7  
96206-85-8 96206-86-9 162377-92-6  
372517-42-5

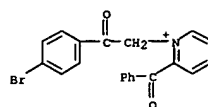
RL: RCT (Reactant); RACT (Reactant or reagent)  
(review of prepn. of indolizines via ring-closure reactions and ring transformations)

RN 1026-29-5 CAPLUS  
CN Pyridinium, 2-acetyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

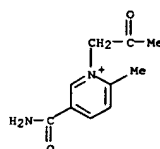
RN 1822-17-9 CAPLUS  
CN Pyridinium, 2-benzoyl-1-[2-(4-bromophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

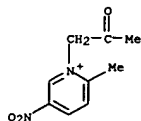
RN 3792-44-7 CAPLUS  
CN Pyridinium, 2-acetyl-1-[2-(4-methoxyphenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



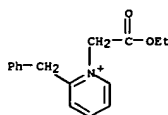
● Br<sup>-</sup>

RN 60891-71-6 CAPLUS  
CN Pyridinium, 2-methyl-5-nitro-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

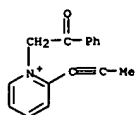
RN 74360-64-8 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

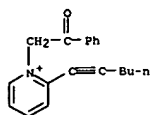
RN 96206-84-7 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
INDEX NAME)



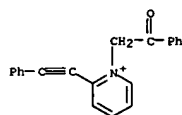
● Br<sup>-</sup>

RN 96206-85-8 CAPLUS  
CN Pyridinium, 2-(1-hexynyl)-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 96206-86-9 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)

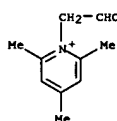


● Br<sup>-</sup>

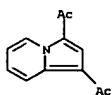
RN 162377-92-6 CAPLUS

L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

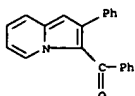
RN 113728-80-6 CAPLUS  
CN Pyridinium, 2,4,6-trimethyl-1-(2-oxoethyl)- (9CI) (CA INDEX NAME)



IT 525-42-8P, 1,3-Diacetylindolizine 14759-45-6P  
17281-78-6P 18782-31-5P 25314-92-5P  
25627-81-0P 36944-59-9P 36944-82-8P  
36990-52-0P 55814-14-7P 56671-63-7P,  
3-Indolizinecarboxaldehyde 82884-78-4P 96206-93-8P  
100393-31-5P 127391-42-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(review of preparation of indolizines via ring-closure reactions and  
ring transformations)  
RN 525-42-8 CAPLUS  
CN Ethanone, 1,1'-(1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



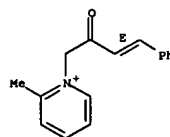
RN 14759-45-6 CAPLUS  
CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 17281-78-6 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-, dimethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)

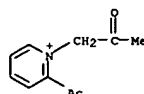
L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CN Pyridinium, 2-methyl-1-[(3E)-2-oxo-4-phenyl-3-butenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.



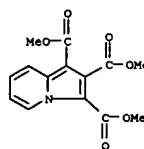
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RN 372517-42-5 CAPLUS  
CN Pyridinium, 2-acetyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

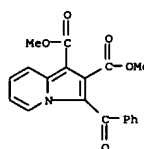


● Br<sup>-</sup>

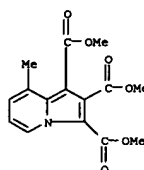
IT 4491-43-4P 113728-80-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(review of preparation of indolizines via ring-closure reactions and  
ring transformations)  
RN 4491-43-4 CAPLUS  
CN 1,2,3-Indolizinetetracarboxylic acid, trimethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



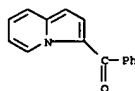
L15 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



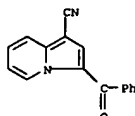
RN 18782-31-5 CAPLUS  
CN 1,2,3-Indolizinetetracarboxylic acid, 8-methyl-, trimethyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)



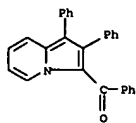
RN 25314-92-5 CAPLUS  
CN Methanone, 3-indolizinyphenyl- (9CI) (CA INDEX NAME)



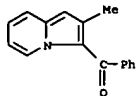
RN 25627-81-0 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-benzoyl- (9CI, 9CI) (CA INDEX NAME)



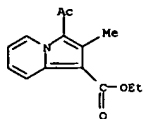
RN 36944-59-9 CAPLUS  
CN Methanone, (1,2-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



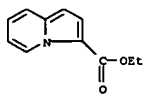
RN 36944-82-8 CAPLUS  
CN Methanone, (2-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



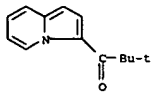
RN 36990-52-0 CAPLUS  
CN 1-indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (7CI, 9CI) (CA INDEX NAME)



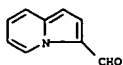
RN 55814-14-7 CAPLUS  
CN 3-indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



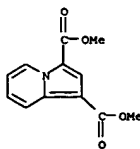
RN 56671-63-7 CAPLUS  
CN 3-indolizinecarboxaldehyde (9CI) (CA INDEX NAME)



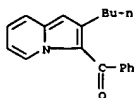
REFERENCE COUNT: 176 THERE ARE 176 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



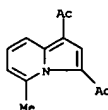
RN 82884-78-4 CAPLUS  
CN 1,3-indolizinedicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



RN 96206-93-8 CAPLUS  
CN Methanone, (2-butyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

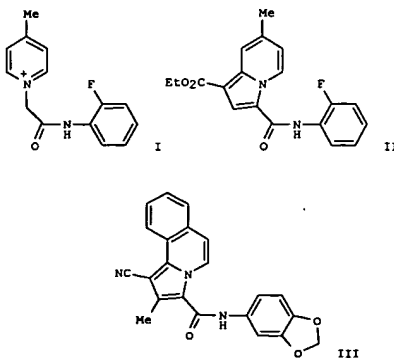


RN 100393-31-5 CAPLUS  
CN Ethanone, 1,1'-(5-methyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



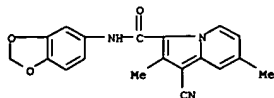
RN 127391-42-8 CAPLUS  
CN 1-Propanone, 1-(3-indoliziny)-2,2-dimethyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2002:715248 CAPLUS  
DOCUMENT NUMBER: 138:337957  
TITLE: New N-bridgehead heterocyclic compounds. I. Carbamoyl-substituted indolizines and benzindolizines  
AUTHOR(S): Georgescu, Emilian; Georgescu, Florentina; Danila, Mariana G.; Filip, Petru I.; Draghici, Constantin; Caproiu, Miron T.  
CORPORATE SOURCE: S.C. OLTCHIM-Research Center, Ramnicu Valcea, 1000, Rom.  
SOURCE: ARKIVOC (Gainesville, FL, United States) [online computer file] (2002), (2), 30-45  
CODEN: AGFUAR  
URL: <http://www.arkat-usa.org/ark/journal/2002/Neitzeacu/CN-420290/CN-290.pdf>  
PUBLISHER: Arkat USA Inc.  
DOCUMENT TYPE: Journal; (online computer file)  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 138:337957  
GI

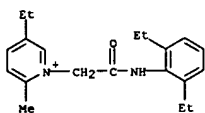


AB Quaternary salts, e.g., I-Cl<sup>-</sup>, obtained by the reaction of several pyridines and benzopyridines with chloro- or bromoacetanilides were reacted with corresponding activated alkynes, e.g., EtO<sub>2</sub>CC.tplbond.CH, in the presence of an oxirane, yielding new carbamoyl-substituted indolizines, e.g., II, and benzindolizines derivs. Other new 3-carbamoyl substituted indolizine and pyrrolo[2,1-a]isoquinolines, e.g., III, were

L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 obtained by heating the intermediate N-methylcarbamoyl quaternary salts, in the presence of an acid acceptor, with alkenes and tetrapyrrolinecobalt(III) dichromate as a reaction promoter and dehydrogenating catalyst. The new compds. are fully characterized by elemental microanal. and IR, <sup>1</sup>H and <sup>13</sup>C NMR spectra.  
 IT 515179-11-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of carbamoylindolizines via cycloaddn. of crotononitrile to (carbamoylmethyl)pyridinium quaternary salt in the presence of tetrapyrrolinecobalt dichromate)  
 RN 515179-11-0 CAPLUS  
 CN 3-Indolizinecarboxamide, N-1,3-benzodioxol-5-yl-1-cyano-2,7-dimethyl- (9CI) (CA INDEX NAME)



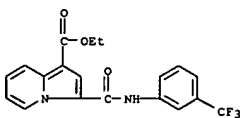
IT 374552-39-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of carbamoylindolizines via dipolar cycloaddn. of alkynes to (carbamoylmethyl)pyridinium chlorides)  
 RN 374552-39-3 CAPLUS  
 CN Pyridinium, 1-[2-((2,6-diethylphenyl)amino)-2-oxoethyl]-5-ethyl-2-methyl-, chloride (9CI) (CA INDEX NAME)



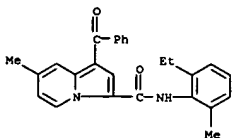
● Cl<sup>-</sup>

IT 374679-28-4P 374679-29-5P 374679-30-8P  
 374679-31-9P 374679-51-3P 515178-95-7P  
 515178-96-8P 515178-97-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of carbamoylindolizines via dipolar cycloaddn. of alkynes to (carbamoylmethyl)pyridinium chlorides)  
 RN 374679-28-4 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-[[[(2-fluorophenyl)amino]carbonyl]-7-methyl-

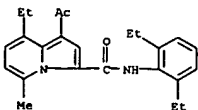
L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN 1-Indolizinecarboxylic acid, 3-[[[(3-(trifluoromethyl)phenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 515178-95-7 CAPLUS  
 CN 3-Indolizinecarboxamide, 1-benzoyl-N-(2-ethyl-6-methylphenyl)-7-methyl- (9CI) (CA INDEX NAME)

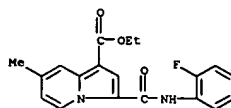


RN 515178-96-8 CAPLUS  
 CN 3-Indolizinecarboxamide, 1-acetyl-N-(2,6-diethylphenyl)-8-ethyl-5-methyl- (9CI) (CA INDEX NAME)

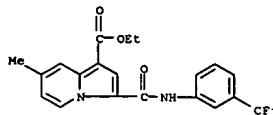


RN 515178-97-9 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-[[[(2,6-diethylphenyl)amino]carbonyl]-8-ethyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

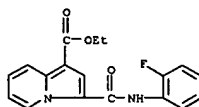
L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 , ethyl ester (9CI) (CA INDEX NAME)



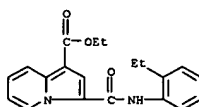
RN 374679-29-5 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 7-methyl-3-[[[(3-(trifluoromethyl)phenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 374679-30-8 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-[[[(2-fluorophenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

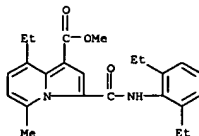


RN 374679-31-9 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-[[[(2-ethylphenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



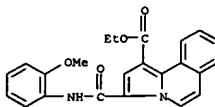
RN 374679-51-3 CAPLUS

L15 ANSWER 11 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

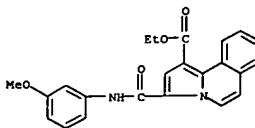


IT 374679-41-1P 374679-42-2P 374679-43-3P  
 374679-44-4P 515178-99-1P 515179-00-7P  
 515179-01-8P 515179-02-9P 515179-03-0P  
 515179-04-1P 515179-05-2P 515179-06-3P  
 515179-07-4P 515179-08-5P 515179-09-6P  
 515179-10-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of carbamoylpyrroloisoquinolines via dipolar cycloaddn. of alkynes to (carbamoylmethyl)isoquinolinium chlorides)

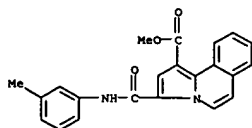
RN 374679-41-1 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[(2-methoxyphenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



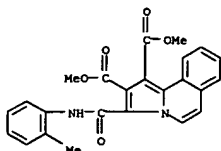
RN 374679-42-2 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[(3-methoxyphenyl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



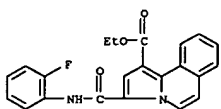
RN 374679-43-3 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[(3-methylphenyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



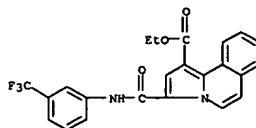
RN 374679-44-4 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[2-methylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



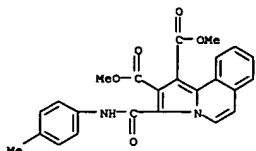
RN 515178-99-1 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[2-fluorophenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



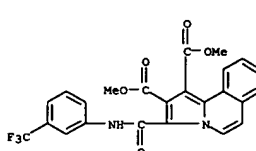
RN 515179-00-7 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



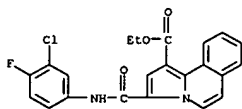
RN 515179-01-8 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



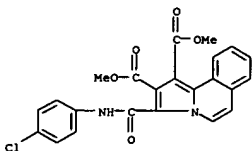
RN 515179-02-9 CAPLUS  
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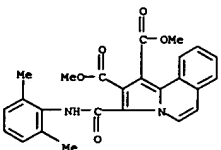
RN 515179-03-0 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-[[[3-chloro-4-fluorophenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



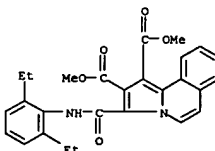
RN 515179-04-1 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[4-chlorophenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



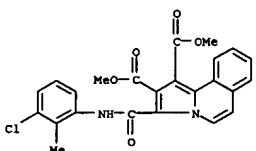
RN 515179-05-2 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[2,6-dimethylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



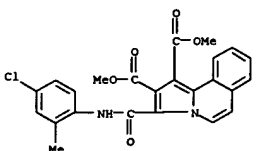
RN 515179-06-3 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[2,6-diethylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



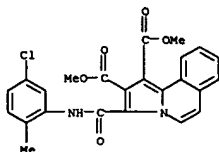
RN 515179-07-4 CAPLUS  
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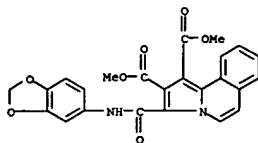
RN 515179-08-5 CAPLUS  
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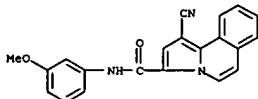
RN 515179-09-6 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-[[[5-chloro-2-methylphenyl]amino]carbonyl]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 515179-10-9 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-((1,3-benzodioxol-5-ylamino)carbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)



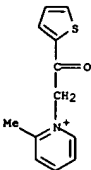
IT 214604-18-9P 374636-57-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of carbamoylpyrroloisoquinolines via cycloaddn. of crotononitrile or acrylonitrile to (carbamoylmethyl)isoquinolinium quaternary salt in the presence of tetrapyridinecobalt dichromate)  
RN 214604-18-9 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-cyano-N-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 374636-57-4 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-cyano-N-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)

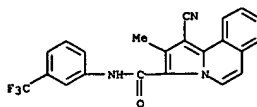
ACCESSION NUMBER: 2002:622701 CAPLUS  
DOCUMENT NUMBER: 138:89650  
TITLE: N-Bridgehead heterocyclic compounds thenoyl-substituted. I Indolizines and benzindolizines  
AUTHOR(S): Georgescu, Emilian I.; Georgescu, Florentina; Roibu, Constantin; Draghici, Constantin C.; Caproiu, Miron T.  
CORPORATE SOURCE: S. C. Oltchim S. A. Research Center, Ramnicu Valcea, 1000, Rom.  
SOURCE: Revue Roumaine de Chimie (2002), Volume Date 2001, 46(4), 357-362  
CODEN: RRCHAX; ISSN: 0035-3930  
PUBLISHER: Editura Academiei Romane  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 138:89650

AB New thenoyl-substituted indolizine and benzindolizine derivs. were obtained by the reactions of pyridines and benzopyridines with 2-bromoacetylthiophene followed by the reactions of the resulting quaternary salts with activated acetylenic compds. in the presence of an epoxide. This synthetic procedure was applied for the synthesis of some thenoyl-substituted indolizines, pyrrolo[1,2-a]quinolines and pyrrolo[2,1-a]isoquinolines, otherwise difficult to obtain.  
IT 26019-10-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of thenoylindolizines and -benzindolizines)  
RN 26019-10-3 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-(2-thienyl)ethyl)-, bromide (9CI) (CA INDEX NAME)

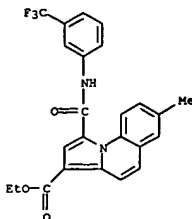


● Br<sup>-</sup>

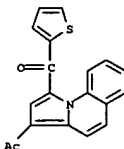
IT 302913-60-6P 302913-61-7P 374679-16-0P  
374679-17-1P 374679-26-2P 374679-53-5P  
482579-33-9P 482579-34-0P 482579-35-1P  
482579-36-2P 482579-37-3P 482579-38-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of thenoylindolizines and -benzindolizines)  
RN 302913-60-6 CAPLUS  
CN Ethanone, 1-[1-(2-thienylcarbonyl)pyrrolo[1,2-a]quinolin-3-yl]- (9CI) (CA INDEX NAME)



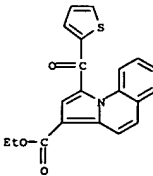
IT 515178-98-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of carbamoylpyrroloquinoline via dipolar cycloaddn. of alkyne to (carbamoylmethyl)quinolinium bromide)  
RN 515178-98-0 CAPLUS  
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 7-methyl-1-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



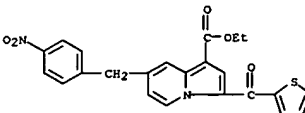
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT



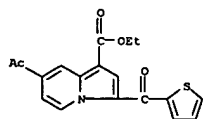
RN 302913-61-7 CAPLUS  
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



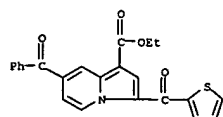
RN 374679-16-0 CAPLUS  
CN 1-Indolizinecarboxylic acid, 7-[(4-nitrophenyl)methyl]-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



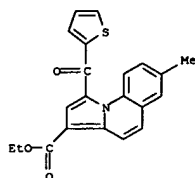
RN 374679-17-1 CAPLUS  
CN 1-Indolizinecarboxylic acid, 7-acetyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



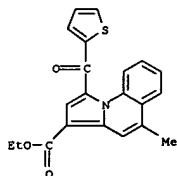
RN 374679-26-2 CAPLUS  
CN 1-Indolizinecarboxylic acid, 7-benzoyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



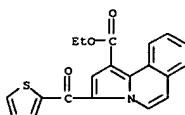
RN 374679-53-5 CAPLUS  
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 7-methyl-1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



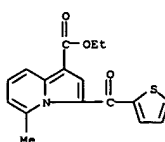
RN 482579-33-9 CAPLUS  
CN 1-Indolizinecarboxylic acid, 5-methyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



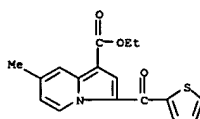
RN 482579-38-4 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



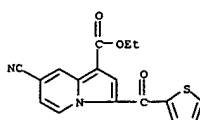
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT



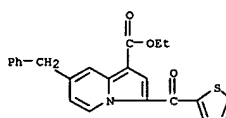
RN 482579-34-0 CAPLUS  
CN 1-Indolizinecarboxylic acid, 7-methyl-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 482579-35-1 CAPLUS  
CN 1-Indolizinecarboxylic acid, 7-cyano-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 482579-36-2 CAPLUS  
CN 1-Indolizinecarboxylic acid, 7-(phenylmethyl)-3-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 482579-37-3 CAPLUS  
CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 5-methyl-1-(2-thienylcarbonyl)-

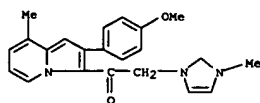
ACCESSION NUMBER: 2001:654637 CAPLUS  
DOCUMENT NUMBER: 135:215749  
TITLE: Keratin fiber dye compositions containing indolizine cationic derivatives as coupling agents  
INVENTOR(S): Breton, Philippe; Segala, Fabienne; Lagrange, Alain  
PATENT ASSIGNEE(S): L'oreal, Fr.  
SOURCE: Eur. Pat. Appl., 20 pp.  
CODEN: EPXKDW  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1129690	A2	20010905	EP 2001-400430	20010219
EP 1129690	A3	20011128		
EP 1129690	B1	20050105		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2805460	A1	20010831	FR 2000-2419	20000225
AT 286376	E	20050115	AT 2001-400430	20010219
ES 2236150	T3	20050716	ES 2001-1400430	20010219
CA 2338258	AA	20010825	CA 2001-2338258	20010226
JP 2001270813	A2	20011002	JP 2001-51270	20010226
US 2001044974	A1	20011129	US 2001-791822	20010226
US 2003028975	A9	20030213		
US 6579326	B2	20030617		
PRIORITY APPLN. INFO.:			FR 2000-2419	A 20000225

OTHER SOURCE(S): MARPAT 135:215749  
AB The title oxidative hair dye compns. are disclosed. Thus, 7-methyl-2-phenyl-3-(2-pyridin-2-yl-ethyl)-indolizine was refluxed with di-Me sulfate in Et acetate for 2 h to obtain 1-methyl-2-[2-(7-methyl-2-phenyl-indolizine-3-yl)-ethyl]-pyridinium (I). A hair dye composition contained I 3x10<sup>-3</sup>, paratoluylenediamine 3x10<sup>-3</sup> mole, water and excipients q.s. 100 g. Equal amount of the composition is mixed with 20 volume hydrogen peroxide and applied on the hair for 30 min. The hair is then rinsed with water, washed with shampoo and dried to obtain a golden blond color.  
IT 358359-14-5 358359-15-6 358359-16-7  
358359-17-8 358359-18-9 358359-19-0  
358359-20-3 358359-21-4 358359-22-5  
358359-23-6 358359-24-7 358359-25-8  
358359-26-9 358359-27-0 358359-28-1  
358359-29-2  
RL: RUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(keratin fiber dye compns. containing indolizine cationic deriva. as coupling agents)  
RN 358359-14-5 CAPLUS  
CN 1H-Imidazolium, 1-[2-[2-(4-methoxyphenyl)-8-methyl-3-indolizynyl]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



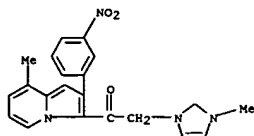
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl<sup>-</sup>

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
RN 358359-15-6 CAPLUS

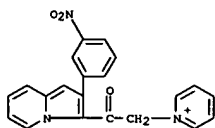
CN 1H-Imidazolium,  
1-methyl-3-[2-(8-methyl-2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

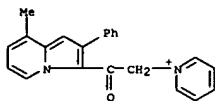
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
RN 358359-16-7 CAPLUS

CN Pyridinium, 1-[2-[2-(3-nitrophenyl)-3-indoliziny]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

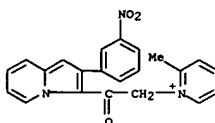
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl<sup>-</sup>

RN 358359-21-4 CAPLUS

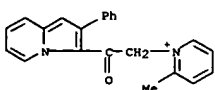
CN Pyridinium, 2-methyl-1-[2-(2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 358359-22-5 CAPLUS

CN Pyridinium, 2-methyl-1-[2-(2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

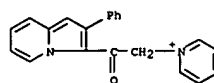
RN 358359-23-6 CAPLUS

CN Pyridinium, 2-methyl-1-[2-(8-methyl-2-(3-nitrophenyl)-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 358359-17-8 CAPLUS

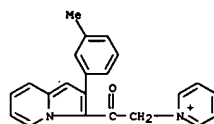
CN Pyridinium, 1-[2-oxo-2-(2-phenyl-3-indoliziny)]ethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 358359-18-9 CAPLUS

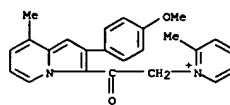
CN Pyridinium, 1-[2-[2-(3-methylphenyl)-3-indoliziny]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 358359-19-0 CAPLUS

CN Pyridinium, 1-[2-[2-(4-methoxyphenyl)-8-methyl-3-indoliziny]-2-oxoethyl]-2-methyl-, chloride (9CI) (CA INDEX NAME)

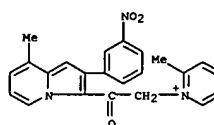


● Cl<sup>-</sup>

RN 358359-20-3 CAPLUS

CN Pyridinium, 1-[2-(8-methyl-2-phenyl-3-indoliziny)]-2-oxoethyl]-, chloride

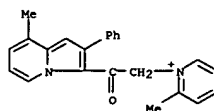
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Cl<sup>-</sup>

RN 358359-24-7 CAPLUS

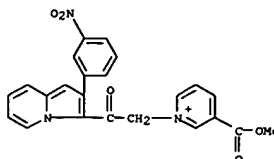
CN Pyridinium, 2-methyl-1-[2-(8-methyl-2-phenyl-3-indoliziny)]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 358359-25-8 CAPLUS

CN Pyridinium, 3-(methoxycarbonyl)-1-[2-[2-(3-nitrophenyl)-3-indoliziny]]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

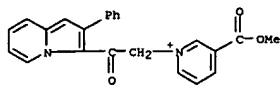


● Cl<sup>-</sup>

RN 358359-26-9 CAPLUS

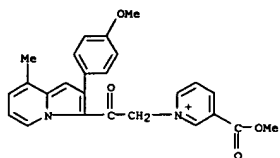
CN Pyridinium, 3-(methoxycarbonyl)-1-[2-oxo-2-(2-phenyl-3-indoliziny)]ethyl]-

L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 , chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

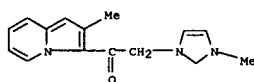
RN 358359-27-0 CAPLUS  
 CN Pyridinium, 3-(methoxycarbonyl)-1-[2-[(4-methoxyphenyl)-8-methyl-3-indoliziny]-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 358359-28-1 CAPLUS  
 CN Pyridinium, 3-(methoxycarbonyl)-1-[2-[(8-methyl-2-(3-nitrophenyl)-3-indoliziny)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

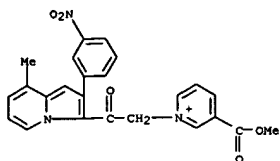
L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE  
 RN 358359-10-1 CAPLUS  
 CN 1H-Imidazolium, 1-methyl-3-[2-(2-methyl-3-indoliziny)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

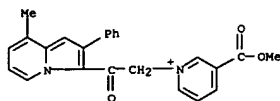
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L15 ANSWER 13 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



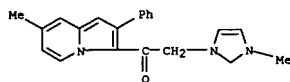
● Cl<sup>-</sup>

RN 358359-29-2 CAPLUS  
 CN Pyridinium, 3-(methoxycarbonyl)-1-[2-[(8-methyl-2-phenyl-3-indoliziny)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



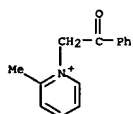
● Cl<sup>-</sup>

IT 358359-09-8P 358359-10-1P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (keratin fiber dye compns. containing indolizine cationic derivs. as coupling agents)  
 RN 358359-09-8 CAPLUS  
 CN 1H-Imidazolium, 1-methyl-3-[2-(7-methyl-2-phenyl-3-indoliziny)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

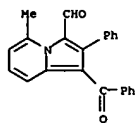
L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2001:633822 CAPLUS  
 DOCUMENT NUMBER: 135:371591  
 TITLE: Preparation of pyrrolo[2,1,5-cd]indolizine derivatives  
 by intramolecular condensation of 3-acyl-5-methylindolizines  
 AUTHOR(S): Liang, Feng; Hu, Jiaxin; Zhang, Lande; Hu, Yuefei; Hu, Hongwen  
 CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China  
 SOURCE: Journal of Heterocyclic Chemistry (2001), 38(4), 853-857  
 CODEN: JHTCAD; ISSN: 0022-152X  
 PUBLISHER: HeteroCorporation  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:371591  
 AB An efficient two step route was developed to synthesize pyrrolo[2,1,5-cd]indolizine derivs. The reaction sequence proceeds via preparation of 3-acyl-5-methylindolizines followed by an intramol. condensation. The procedures were carried out under convenient conditions and gave the products in high yields. It could be expected to be used to prepare a broad range of potentially interesting pyrrolo[2,1,5-cd]indolizine derivs.  
 IT 32896-98-3P 38493-33-3P 75487-74-0P  
 122245-68-5P 133619-68-8P 154224-60-9P  
 374106-40-8P 374106-41-9P 374106-42-0P  
 374106-43-1P 374106-44-2P 374106-46-4P  
 374106-47-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of pyrrolo[2,1,5-cd]indolizine derivs. by condensation of (acyl) (methyl)indolizines)  
 RN 32896-98-3 CAPLUS  
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



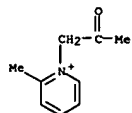
● Br<sup>-</sup>

RN 38493-33-3 CAPLUS  
 CN 3-Indolizinecarboxaldehyde, 1-benzoyl-5-methyl-2-phenyl- (9CI) (CA INDEX NAME)

L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

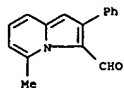


RN 75487-74-0 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

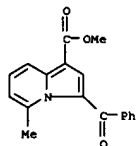


● Br<sup>-</sup>

RN 122245-68-5 CAPLUS  
CN 3-Indolizinecarboxaldehyde, 5-methyl-2-phenyl- (9CI) (CA INDEX NAME)

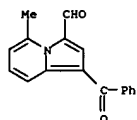


RN 133619-68-8 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

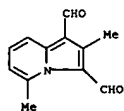


RN 154224-60-9 CAPLUS

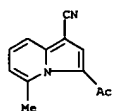
L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 374106-43-1 CAPLUS  
CN 3-Indolizinecarboxaldehyde, 1-benzoyl-5-methyl- (9CI) (CA INDEX NAME)



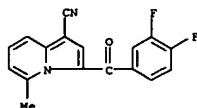
RN 374106-44-2 CAPLUS  
CN 1,3-Indolizinedicarboxaldehyde, 2,5-dimethyl- (9CI) (CA INDEX NAME)



RN 374106-46-4 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-acetyl-5-methyl- (9CI) (CA INDEX NAME)

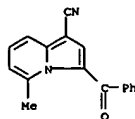


RN 374106-47-5 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-(3,4-difluorobenzoyl)-5-methyl- (9CI) (CA INDEX NAME)

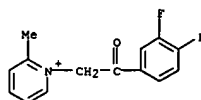


REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
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L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CN 1-Indolizinecarbonitrile, 3-benzoyl-5-methyl- (9CI) (CA INDEX NAME)

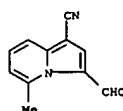


RN 374106-40-8 CAPLUS  
CN Pyridinium, 1-[2-(3,4-difluorophenyl)-2-oxoethyl]-2-methyl-, chloride (9CI) (CA INDEX NAME)

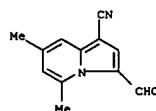


● Cl<sup>-</sup>

RN 374106-41-9 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-formyl-5-methyl- (9CI) (CA INDEX NAME)



RN 374106-42-0 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-formyl-5,7-dimethyl- (9CI) (CA INDEX NAME)



L15 ANSWER 14 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L15 ANSWER 15 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:541395 CAPLUS

DOCUMENT NUMBER: 135:357831

TITLE: Novel synthetic routes to nitrogen-bridged tricyclic derivatives of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine derived from 2-acyl-N-(acetylmethyl)pyridinium halides  
 AUTHOR(S): Hu, Jiaxin; Jiang, Xin; He, Ting; Zhou, Jian; Hu, Yuefei; Hu, Hongwen  
 CORPORATE SOURCE: Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China  
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1

(2001), (15), 1820-1825

CODEN: JCSPCE ISSN: 1472-7781

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:357831

AB Novel synthetic routes to nitrogen-bridged derivs. of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine were developed starting from 2-acyl-1-(acetylmethyl)pyridinium halides. Thus, 2-benzoyl-N-phenacylpyridinium bromide gave 3,4-diphenylpyrrolo[2,1,5-cd]indolizines via 1,3-dipolar cycloaddn., which yielded 3,5-dibenzoylindolizines, followed by intramol. McMurry coupling. Similarly, 2-(1,3-dioxolan-2-yl)-N-phenacylpyridinium bromide gave 3-phenylpyrrolo[2,1,5-cd]indolizine together with an unexpected products, 3-phenyl-4-hydroxypyrrolo[2,1,5-cd]indolizines. However, 2-acetyl-N-phenacylpyridinium bromide or 2-benzoyl-N-acetonylpyridinium bromide underwent a tandem reaction of aldol condensation and 1,3-dipolar cycloaddn. to form 3-phenyl-5H-pyrrolo[2,1,5-de]quinolizine-5-ones or 5-phenyl-3H-pyrrolo[2,1,5-de]quinolizine-3-ones in a single step. These novel procedures are

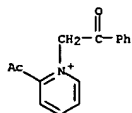
general and can be carried out under convenient conditions.

IT 1026-29-5 108325-73-1 372517-42-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine

derivs. from 2-acyl-1-(acetylmethyl)pyridinium halides)

RN 1026-29-5 CAPLUS  
 CN Pyridinium, 2-acetyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



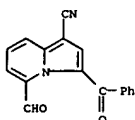
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RN 108325-73-1 CAPLUS

L15 ANSWER 15 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

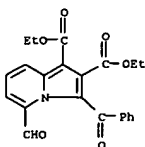
RN 213549-46-3 CAPLUS

CN 1-Indolizinecarbonitrile, 3-benzoyl-5-formyl- (9CI) (CA INDEX NAME)



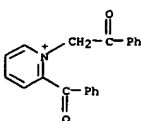
RN 213549-49-6 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-formyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 372517-21-0 CAPLUS

CN Pyridinium, 2-benzoyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



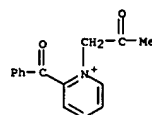
● Br<sup>-</sup>

RN 372517-24-3 CAPLUS

CN 1-Indolizinecarbonitrile, 3,5-dibenzoyl- (9CI) (CA INDEX NAME)

L15 ANSWER 15 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

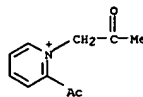
CN Pyridinium, 2-benzoyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 372517-42-5 CAPLUS

CN Pyridinium, 2-acetyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

IT 135489-62-2P 213549-46-3P 213549-49-6P

372517-21-0P 372517-24-3P 372517-26-5P

372517-27-6P

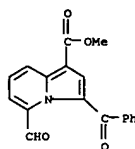
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrrolo[2,1,5-cd]indolizine and pyrrolo[2,1,5-de]quinolizine

derivs. from 2-acyl-1-(acetylmethyl)pyridinium halides)

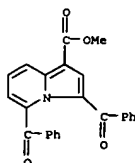
RN 135489-62-2 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-formyl-, methyl ester (9CI) (CA INDEX NAME)



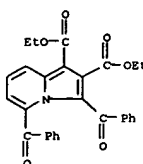
RN 372517-26-5 CAPLUS

CN 1-Indolizinecarboxylic acid, 3,5-dibenzoyl-, methyl ester (9CI) (CA INDEX NAME)



RN 372517-27-6 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3,5-dibenzoyl-, diethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: THIS

FORMAT

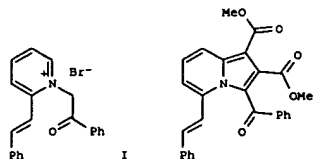
45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:177056 CAPLUS

DOCUMENT NUMBER: 130:337984

TITLE: Synthesis of 5-(2-phenylethenyl)indolizines by selective intermolecular 1,3-dipolar cycloaddition of 2-(2-phenylethenyl)pyridinium N-ylide with alkenes promoted by tetrakis-pyridine cobalt(II) dichromate  
Zhou, Jian; Hu, Yuefei; Hu, Hongwen  
Department of Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China  
Journal of Chemical Research, Synopses (1999), (2), 136-137  
CODEN: JCRPSD; ISSN: 0308-2342  
PUBLISHER: Royal Society of Chemistry  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 130:337984  
GI



AB Intermol. 1,3-dipolar cycloaddn. of 2-(2-phenylethenyl)pyridinium N-ylides, e.g. I, with electron-deficient alkenes, e.g. di-Me maleate, were carried out selectively in the presence of tetrakis-pyridine cobalt(II) dichromate to yield 5-(2-phenylethenyl)indolizines, e.g. II,

in moderate yields (48-63%).

IT 224425-25-6 224425-27-8 224425-29-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of indolizines by intermol. dipolar pyridine cobalt dichromate promoted cycloaddn. of (phenylethenyl)pyridinium N-ylides with electron

deficient alkenes.)

RN 224425-25-6 CAPLUS

CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-[(1E)-2-phenylethenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

IT 224425-03-0P 224425-06-3P 224425-09-6P

224425-10-9P 224425-12-1P 224425-14-3P

224425-17-6P 224425-19-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

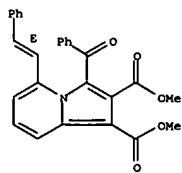
(preparation of indolizines by intermol. dipolar pyridine cobalt dichromate promoted cycloaddn. of (phenylethenyl)pyridinium N-ylides with electron

deficient alkenes.)

RN 224425-03-0 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-[(1E)-2-phenylethenyl]-, dimethyl ester (9CI) (CA INDEX NAME)

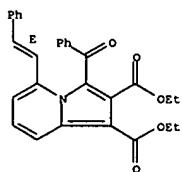
Double bond geometry as shown.



RN 224425-06-3 CAPLUS

CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5-[(1E)-2-phenylethenyl]-, diethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

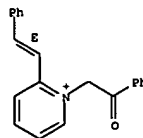


RN 224425-09-6 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-[(1E)-2-phenylethenyl]-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

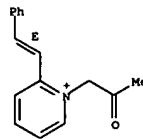


● Br<sup>-</sup>

RN 224425-27-8 CAPLUS

CN Pyridinium, 1-(2-oxopropyl)-2-[(1E)-2-phenylethenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.

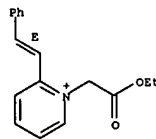


● Br<sup>-</sup>

RN 224425-29-0 CAPLUS

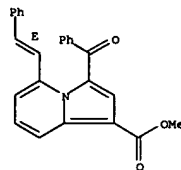
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-[(1E)-2-phenylethenyl]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● Br<sup>-</sup>

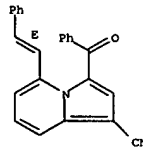
L15 ANSWER 16 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 224425-10-9 CAPLUS

CN 1-Indolizinecarbonitrile, 3-benzoyl-5-[(1E)-2-phenylethenyl]- (9CI) (CA INDEX NAME)

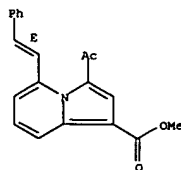
Double bond geometry as shown.



RN 224425-12-1 CAPLUS

CN 1-Indolizinecarboxylic acid, 3-acetyl-5-[(1E)-2-phenylethenyl]-, methyl ester (9CI) (CA INDEX NAME)

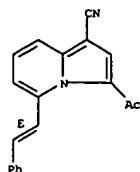
Double bond geometry as shown.



RN 224425-14-3 CAPLUS

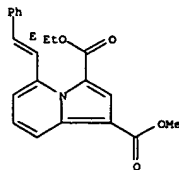
CN 1-Indolizinecarbonitrile, 3-acetyl-5-[(1E)-2-phenylethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



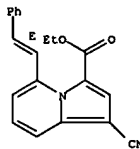
RN 224425-17-6 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 5-[(1E)-2-phenylethenyl]-, 3-ethyl 1-methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



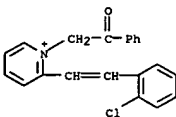
RN 224425-19-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-cyano-5-[(1E)-2-phenylethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



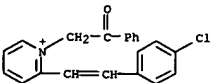
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

FORMAT



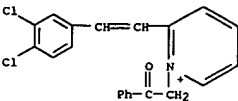
● Br<sup>-</sup>

RN 220151-83-7 CAPLUS  
CN Pyridinium, 2-[2-(4-chlorophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 220151-84-8 CAPLUS  
CN Pyridinium, 2-[2-(3,4-dichlorophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 220151-85-9 CAPLUS  
CN Pyridinium, 2-[2-(4-nitrophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1999:43881 CAPLUS  
DOCUMENT NUMBER: 130:139272  
TITLE: The first approach to the synthesis of 1-unsubstituted

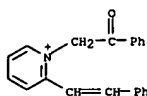
2-arylindolizines by intramolecular 1,5-dipolar cyclization of 2-(2-arylethenyl)pyridinium ylides in the presence of tetrakis(pyridine)cobalt(II) dichromate

AUTHOR(S): Zhou, Jian; Hu, Yue Fei; Hu, Hong Wen  
CORPORATE SOURCE: Department Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China  
SOURCE: Synthesis (1999), (1), 166-170  
CODEN: SYNTBF; ISSN: 0039-7881  
PUBLISHER: Georg Thieme Verlag  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 130:139272

AB A synthesis of 1-unsubstituted 2-arylindolizines by intramol. 1,5-dipolar cyclization of 2-(2-arylethenyl)pyridinium ylides in the presence of tetrakis(pyridine)cobalt(II) dichromate was developed. Several 1-unsubstituted 2-aryl-3-acetyl-, 3-benzoyl-, 3-ethoxycarbonyl- and 3-(4-nitrobenzoyl)indolizines were synthesized under the mild conditions in reasonable to moderate yields.

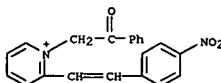
IT 220151-81-5P 220151-82-6P 220151-83-7P  
220151-84-8P 220151-85-9P 220151-86-0P  
220151-87-1P 220151-88-2P 220151-89-3P  
220151-91-7P 220151-92-8P 220151-93-9P  
220151-94-0P 220151-95-1P 220151-96-2P  
220151-97-3P 220151-98-4P 220151-99-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of arylindolizines by intramol. 1,5-dipolar cycloaddn. of (arylethenyl)pyridinium ylides)  
RN 220151-81-5 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(2-phenylethenyl)-, bromide (9CI) (CA INDEX NAME)



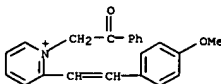
● Br<sup>-</sup>

RN 220151-82-6 CAPLUS  
CN Pyridinium, 2-[2-(2-chlorophenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



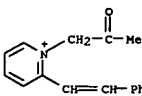
● Br<sup>-</sup>

RN 220151-86-0 CAPLUS  
CN Pyridinium, 2-[2-(4-methoxyphenyl)ethenyl]-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



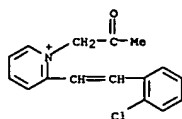
● Br<sup>-</sup>

RN 220151-87-1 CAPLUS  
CN Pyridinium, 1-(2-oxopropyl)-2-(2-phenylethenyl)-, bromide (9CI) (CA INDEX NAME)

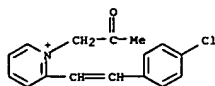


● Br<sup>-</sup>

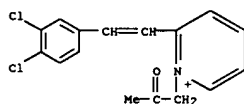
RN 220151-88-2 CAPLUS  
CN Pyridinium, 2-[2-(2-chlorophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

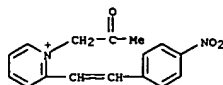
RN 220151-89-3 CAPLUS  
CN Pyridinium, 2-[2-(4-chlorophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

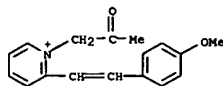
RN 220151-91-7 CAPLUS  
CN Pyridinium, 2-[2-(3,4-dichlorophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

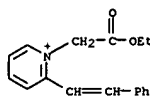
RN 220151-92-8 CAPLUS  
CN Pyridinium, 2-[2-(4-nitrophenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

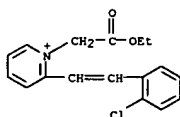
RN 220151-93-9 CAPLUS  
CN Pyridinium, 2-[2-(4-methoxyphenyl)ethenyl]-1-(2-oxopropyl)-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

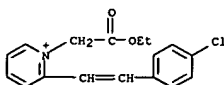
RN 220151-94-0 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(2-phenylethenyl)-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

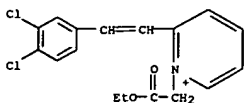
RN 220151-95-1 CAPLUS  
CN Pyridinium, 2-[2-(2-chlorophenyl)ethenyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

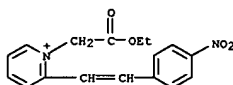
RN 220151-96-2 CAPLUS  
CN Pyridinium, 2-[2-(4-chlorophenyl)ethenyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

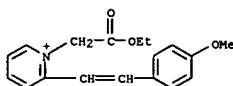
RN 220151-97-3 CAPLUS  
CN Pyridinium, 2-[2-(3,4-dichlorophenyl)ethenyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

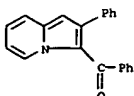
RN 220151-98-4 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-[2-(4-nitrophenyl)ethenyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

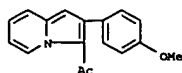
RN 220151-99-5 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-[2-(4-methoxyphenyl)ethenyl]-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

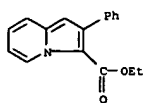
IT 14759-45-6P 26573-47-7P 36766-79-7P  
38320-58-0P 58963-35-2P 169210-23-5P  
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220152-07-8P 220152-08-9P 220152-09-0P  
220152-10-3P 220152-11-4P 220152-12-5P  
220152-13-6P 220152-14-7P 220152-15-8P  
RL: SYN (Synthetic preparation); PREP (Preparation)  
(preparation of arylindolizines by intramol. 1,5-dipolar cycloaddn. of  
(arylethenyl)pyridinium ylides)  
RN 14759-45-6 CAPLUS  
CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



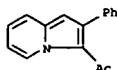
RN 26573-47-7 CAPLUS  
CN Ethanone, 1-[2-(4-methoxyphenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



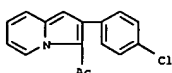
RN 36766-79-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



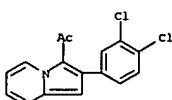
RN 38320-58-0 CAPLUS  
CN Ethanone, 1-[2-phenyl-3-indolizynyl]- (9CI) (CA INDEX NAME)



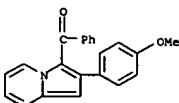
RN 58963-35-2 CAPLUS  
CN Ethanone, 1-[2-(4-chlorophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



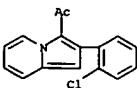
RN 169210-23-5 CAPLUS  
CN Ethanone, 1-[2-(3,4-dichlorophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



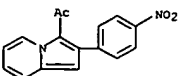
RN 220152-04-5 CAPLUS  
CN Methanone, [2-(2-chlorophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



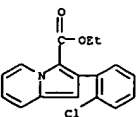
RN 220152-09-0 CAPLUS  
CN Ethanone, 1-[2-(2-chlorophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



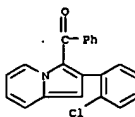
RN 220152-10-3 CAPLUS  
CN Ethanone, 1-[2-(4-nitrophenyl)-3-indolizynyl]- (9CI) (CA INDEX NAME)



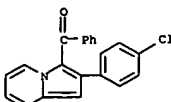
RN 220152-11-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(2-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



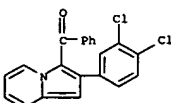
RN 220152-12-5 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(4-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



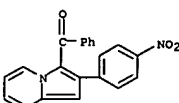
RN 220152-05-6 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



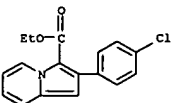
RN 220152-06-7 CAPLUS  
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



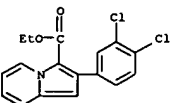
RN 220152-07-8 CAPLUS  
CN Methanone, [2-(4-nitrophenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



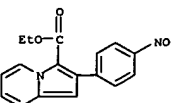
RN 220152-08-9 CAPLUS  
CN Methanone, [2-(4-methoxyphenyl)-3-indolizynyl]phenyl- (9CI) (CA INDEX NAME)



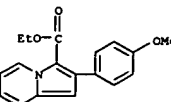
RN 220152-13-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(3,4-dichlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 220152-14-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 220152-15-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

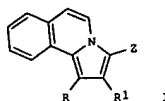




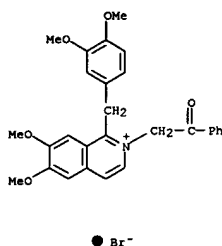
L15 ANSWER 18 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:491577 CAPLUS  
 DOCUMENT NUMBER: 127:110293  
 TITLE: Pyrrolo[2,1-a]isoquinoline dyes  
 INVENTOR(S): Cuny, Gregory D.  
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA  
 SOURCE: Eur. Pat. Appl., 19 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 780443	A2	19970625	EP 1996-119155	19961129
EP 780443	A3	19980923		
R: DE, FR, GB, IT				
US 5723617	A	19980303	US 1995-576502	19951221
JP 09183913	A2	19970715	JP 1996-337044	19961217
PRIORITY APPLN. INFO.:			US 1995-576502	A 19951221

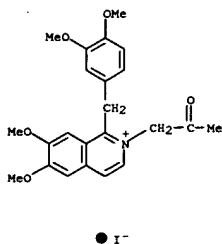
OTHER SOURCE(S): MARPAT 127:110293  
 GI



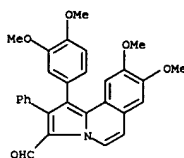
AB The dyes have the structure I, where R is (un)substituted Ph, R1 is alkyl, aryl, aralkyl, or alkaryl, and Z contains N+, a carbonyl group, or CN at the end of a pathway of conjugated double bonds; the isoquinoline ring may also be substituted with OMe groups. The dyes have greater thermal and chemical stability than their indolizine analogs and have narrow absorption bands in the range 500-900 nm. Those that absorb in the near-IR region (700-1400 nm) lack significant absorption in the 300-400 nm UV region of the spectrum. Thus, papaverine was quaternized with PhCOCH2Br, cyclized, and condensed with 4-Me2NC6H4CHO to gave a dark purple dye with  $\lambda_{max}$  640 nm.  
 IT 192388-48-OP 192388-66-2P 192388-78-6P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of near-IR absorbing pyrroloisoquinoline dyes)  
 RN 192388-48-0 CAPLUS  
 CN Isoquinolinium, 1-[(3,4-dimethoxyphenyl)methyl]-6,7-dimethoxy-2-(2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



RN 192388-66-2 CAPLUS  
 CN Isoquinolinium, 1-[(3,4-dimethoxyphenyl)methyl]-6,7-dimethoxy-2-(2-oxopropyl)-, iodide (9CI) (CA INDEX NAME)

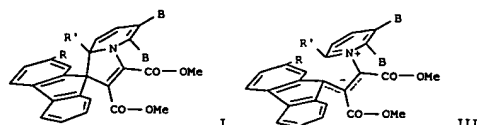


RN 192388-78-6 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxaldehyde, 1-(3,4-dimethoxyphenyl)-8,9-dimethoxy-2-phenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1997:324536 CAPLUS  
 DOCUMENT NUMBER: 127:17323

TITLE: New aspects of the photophysical properties of 1'-H-2',3'-dimethoxycarbonylspiro[fluorene-9,1'-pyrrolo[2,1-a]quinoline]  
 AUTHOR(S): Andreis, Christine; Durr, Heinz; Wintgens, Veronique; Valat, Pierre; Kossanyi, Jean  
 CORPORATE SOURCE: Organische Chem., Univ. Saarlandes, Saarbrücken, D-66041, Germany  
 SOURCE: Chemistry--A European Journal (1997), 3(4), 509-516  
 CODEN: CEUJED; ISSN: 0947-6539  
 PUBLISHER: VCH  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI

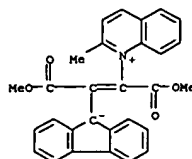


AB In this paper we describe photophys. and mechanistic studies of spiro[fluorene-9,1'-pyrrolo[2,1-a]quinolines] (DHI) I (e.g., R = R' = H, BB = benzene ring (1)) and of their styryl homologues II [with R' of I replaced by CH:CHR' where R' = (un)substituted Ph]. DHIs I-II have low fluorescence quantum yields (approx.  $\Phi_f = 10^{-3}$ ). The position of the fluorescence emission band is temperature-dependent. The ring-opened betaines

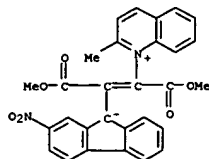
III do not fluoresce at all. DHIs I-II exhibit phosphorescence, which is hypsochromically shifted by NO<sub>2</sub> substitution of the fluorene ring. The triplet can be populated only by sensitization (with benzophenone as sensitizer) and, therefore, the reaction that occurs under direct excitation of the mol. involves the singlet excited state only. On irradiation under time-resolved conditions, two transients were seen to

be formed in the picosecond and microsecond domains. Slightly tilted educt or product-like geometries are attributed to these transients. An energy diagram is proposed for the photoreaction of the model compound spiro[pyrroloquinoline] 1 + III (R = R' = H, BB = benzene ring), which takes into account the singlet pathway and the different transients of ca. 100 ps lifetimes formed from the singlet excited state of I-II.  
 IT 190506-49-1 190506-53-7 190506-55-9  
 190506-56-0 190506-57-1 190506-58-2  
 190506-59-3 190506-60-6 190506-61-7  
 RL: PMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent)  
 (photophys. properties of photochromic 1'-H-2',3'-dimethoxycarbonylspiro[fluorene-9,1'-pyrrolo[2,1-a]quinoline] derivs.)  
 RN 190506-49-1 CAPLUS  
 CN Quinolinium,  
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-

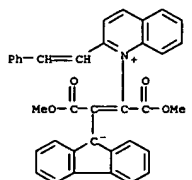
L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 propenyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



RN 190506-53-7 CAPLUS  
 CN Quinolinium,  
 1-[3-methoxy-1-(methoxycarbonyl)-2-(2-nitro-9H-fluorene-9-yl)-3-oxo-1-propenyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)

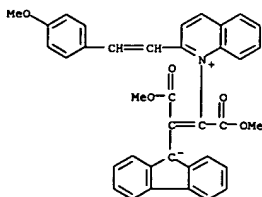


RN 190506-55-9 CAPLUS  
 CN Quinolinium,  
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-2-(2-phenylethenyl)-, inner salt (9CI) (CA INDEX NAME)

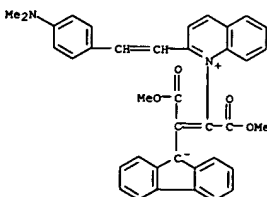


RN 190506-56-0 CAPLUS  
 CN Quinolinium,  
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-2-[2-(4-methoxyphenyl)ethenyl]-, inner salt (9CI) (CA INDEX NAME)

L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 NAME)

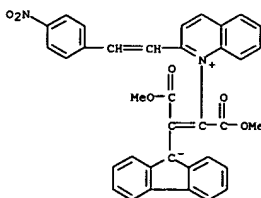


RN 190506-57-1 CAPLUS  
 CN Quinolinium,  
 2-[2-[4-(dimethylamino)phenyl]ethenyl]-1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-, inner salt (9CI) (CA INDEX NAME)

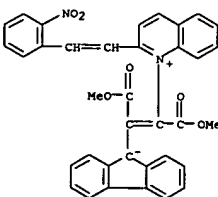


RN 190506-58-2 CAPLUS  
 CN Quinolinium,  
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-2-[2-(4-nitrophenyl)ethenyl]-, inner salt (9CI) (CA INDEX NAME)

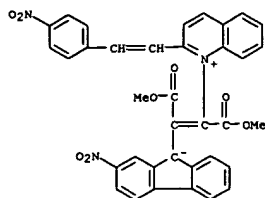
L15 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



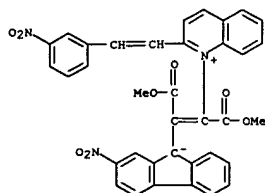
RN 190506-59-3 CAPLUS  
 CN Quinolinium,  
 1-[2-(9H-fluorene-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-2-[2-(2-nitrophenyl)ethenyl]-, inner salt (9CI) (CA INDEX NAME)



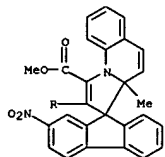
RN 190506-60-6 CAPLUS  
 CN Quinolinium,  
 1-[3-methoxy-1-(methoxycarbonyl)-2-(2-nitro-9H-fluorene-9-yl)-3-oxo-1-propenyl]-2-[2-(4-nitrophenyl)ethenyl]-, inner salt (9CI) (CA INDEX NAME)



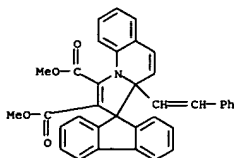
RN 190506-61-7 CAPLUS  
CN Quinolinium,  
1-[3-methoxy-1-(methoxycarbonyl)-2-(2-nitro-9H-fluoren-9-yl)-  
3-oxo-1-propenyl]-2-[2-(3-nitrophenyl)ethenyl]-, inner salt (9CI) (CA  
INDEX NAME)



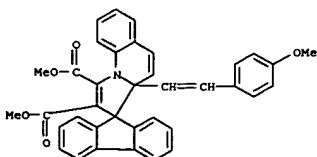
IT 72206-65-6 72206-66-7 190506-39-9  
190506-40-2 190506-41-3 190506-42-4  
190506-43-5 190506-44-6 190506-45-7  
190506-46-8 190506-47-9  
RL: PEP (Physical, engineering or chemical process); PRP (Properties);  
RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
(photophys. properties of photochromic 1'H-2',3'-  
dimethoxycarbonylspiro[fluorene-9,1'-pyrrolo[2,1-a]quinoline] derivs.)  
RN 72206-65-6 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, dimethyl ester (9CI) (CA INDEX NAME)



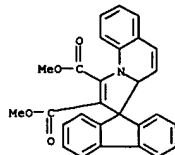
RN 190506-41-3 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 3'a-[2-(2-phenylethenyl)]-, dimethyl ester (9CI) (CA INDEX NAME)



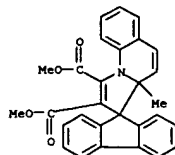
RN 190506-42-4 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 3'a-[2-(4-methoxyphenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX  
NAME)



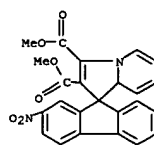
RN 190506-43-5 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 3'a-[2-[4-(dimethylamino)phenyl]ethenyl]-, dimethyl ester (9CI)  
(CA



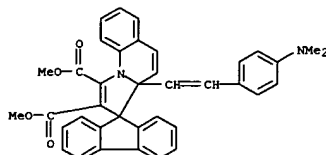
RN 72206-66-7 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 3'a-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



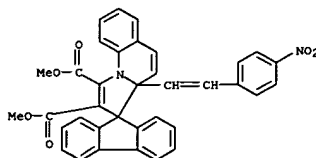
RN 190506-39-9 CAPLUS  
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid,  
2-nitro-, dimethyl ester (9CI) (CA INDEX NAME)



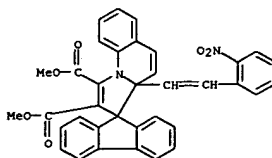
RN 190506-40-2 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 3'a-methyl-2-nitro-, dimethyl ester (9CI) (CA INDEX NAME)



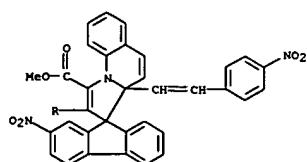
RN 190506-44-6 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 3'a-[2-(4-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX  
NAME)



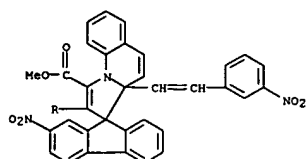
RN 190506-45-7 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 3'a-[2-(2-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX  
NAME)



RN 190506-46-8 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic  
acid, 2-nitro-3'a-[2-(4-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA  
INDEX NAME)



RN 190506-47-9 CAPLUS  
 CN Spiro[9H-fluorene-9,3'-(3'ah)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, 2-nitro-3'a-[2-(3-nitrophenyl)ethenyl]-, dimethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

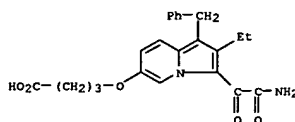
ACCESSION NUMBER: 1996:513751 CAPLUS  
 DOCUMENT NUMBER: 125:247550  
 TITLE: Potent Inhibitors of Secretory Phospholipase A2: Synthesis and Inhibitory Activities of Indolizine and Indene Derivatives  
 AUTHOR(S): Hagishita, Sanji; Yamada, Masaaki; Shirahase, Kazuhiro; Okada, Toshihiko; Murakami, Yasushi; Ito, Yuji; Matsura, Takaharu; Wada, Masaaki; Kato, Toshiyuki; et al.  
 CORPORATE SOURCE: Shionogi Research Laboratories, Shionogi Co. Ltd., Osaka, 553, Japan  
 SOURCE: Journal of Medicinal Chemistry (1996), 39(19), 3636-3658  
 CODEN: JMCQAR; ISSN: 0022-2623  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Phospholipase A2 is an enzyme which hydrolyzes the sn-2 position of certain cellular phospholipids. The liberated lysophospholipid and arachidonic acid are precursors in the biosynthesis of various biol. active products. As human nonpancreatic secretory phospholipase A2 (sPLA2) is present in high levels in the blood of patients in several pathol. conditions, the potent sPLA2 inhibitors have been suggested to be useful drugs. Here the authors describe the synthesis, structure-activity relationship, and inhibitory activities of indolizine and indene derivs. 1-(Carbamoylmethyl)indolizine derivs. and 1-oxamoylindolizine derivs. exhibited very potent inhibitory activity. The former was unstable to

air oxidation, but the latter exhibited an improvement both in stability and in potency. Some compds. approached the stoichiometric limit of the chromogenic assay.

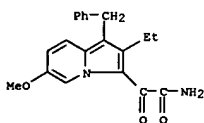
IT 177556-76-2P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and phospholipase A inhibitory activity of indolizine and indene derivs.)

RN 177556-76-2 CAPLUS  
 CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]- (9CI) (CA INDEX NAME)

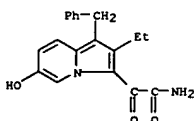


IT 177558-42-8P 177558-43-9P 177558-44-0P  
 177558-52-0P 177558-53-1P 177558-54-2P  
 177558-55-3P 177558-56-4P 177558-66-6P  
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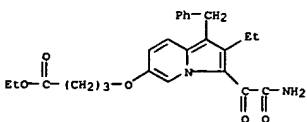
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 177559-09-0P 177559-10-3P 177559-11-4P  
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 177559-16-9P 177559-17-0P 177559-18-1P  
 177559-19-2P 177559-22-7P 177559-23-8P  
 177559-24-9P 177559-25-0P 177559-27-2P  
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 177559-64-7P 177559-65-8P 177559-66-9P  
 177559-87-4P 177559-88-5P 177559-89-6P  
 182115-64-6P 182115-66-8P 182115-67-9P  
 182116-39-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and phospholipase A inhibitory activity of indolizine and indene derivs.)  
 RN 177558-42-8 CAPLUS  
 CN 3-Indolizineacetamide, 2-ethyl-6-methoxy- $\alpha$ -oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



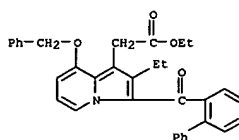
RN 177558-43-9 CAPLUS  
 CN 3-Indolizineacetamide, 2-ethyl-6-hydroxy- $\alpha$ -oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



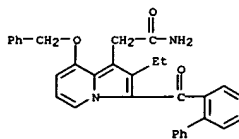
RN 177558-44-0 CAPLUS  
 CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]-, ethyl ester (9CI) (CA INDEX NAME)



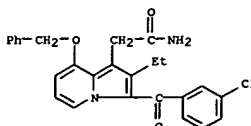
RN 177558-52-0 CAPLUS  
 CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



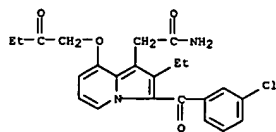
RN 177558-53-1 CAPLUS  
 CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



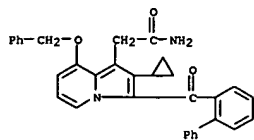
RN 177558-54-2 CAPLUS  
 CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



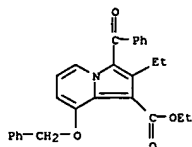
RN 177558-55-3 CAPLUS  
 CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(2-oxobutoxy)- (9CI) (CA INDEX NAME)



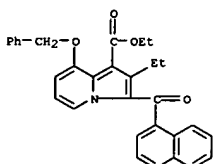
RN 177558-56-4 CAPLUS  
CN 1-Indolizineacetamide, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



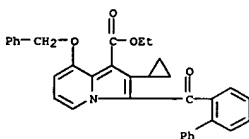
RN 177558-66-6 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



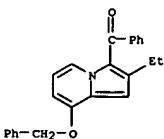
RN 177558-67-7 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



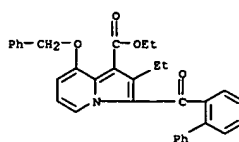
RN 177558-71-3 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-([1,1'-biphenyl]-2-ylcarbonyl)-2-cyclopropyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



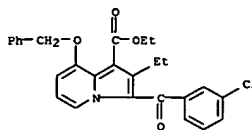
RN 177558-72-4 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



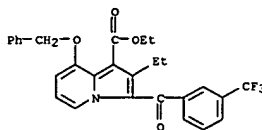
RN 177558-73-5 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



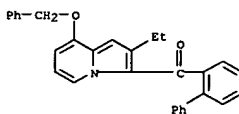
RN 177558-68-8 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-[3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)-ethyl ester] (9CI) (CA INDEX NAME)



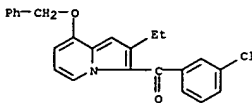
RN 177558-69-9 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-[3-(trifluoromethyl)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



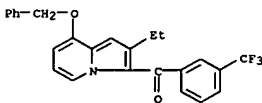
RN 177558-70-2 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-(1-naphthalenylcarbonyl)-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



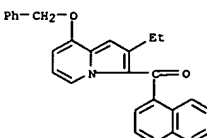
RN 177558-74-6 CAPLUS  
CN Methanone, [3-chlorophenyl] [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



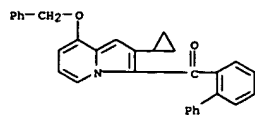
RN 177558-75-7 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



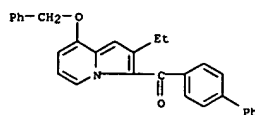
RN 177558-76-8 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxyphenyl]-1-naphthalenyl- (9CI) (CA INDEX NAME)



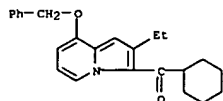
RN 177558-77-9 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl [2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



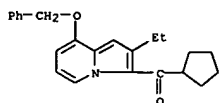
RN 177559-08-9 CAPLUS  
CN Methanone, [1,1'-biphenyl]-4-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



RN 177559-09-0 CAPLUS  
CN Methanone, cyclohexyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

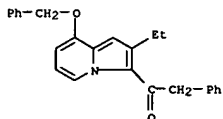


RN 177559-10-3 CAPLUS  
CN Methanone, cyclopentyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

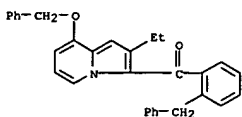


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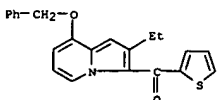
L15 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
INDEX NAME)



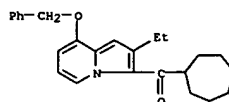
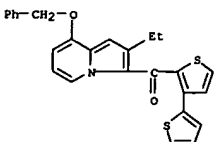
RN 177559-17-0 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy][2-(phenylmethyl)phenyl]- (9CI) (CA INDEX NAME)



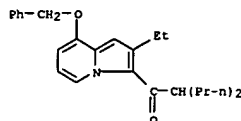
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CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-thienyl- (9CI) (CA INDEX NAME)



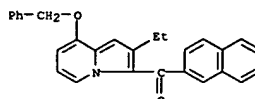
RN 177559-19-2 CAPLUS  
CN Methanone, [2,3'-bithiophen]-2'-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



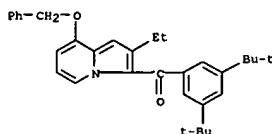
RN 177559-13-6 CAPLUS  
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-propyl- (9CI) (CA INDEX NAME)



RN 177559-14-7 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-naphthalenyl- (9CI) (CA INDEX NAME)



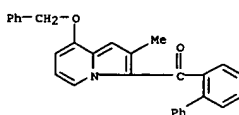
RN 177559-15-8 CAPLUS  
CN Methanone, [3,5-bis(1,1-dimethylethyl)phenyl][2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



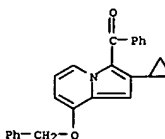
RN 177559-16-9 CAPLUS  
CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-phenyl- (9CI) (CA INDEX NAME)

L15 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

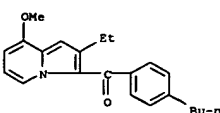
RN 177559-22-7 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl[2-methyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



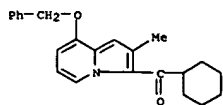
RN 177559-23-8 CAPLUS  
CN Methanone, [2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyloxy]phenyl- (9CI) (CA INDEX NAME)



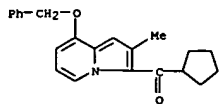
RN 177559-24-9 CAPLUS  
CN Methanone, (4-butylphenyl)[2-ethyl-8-methoxy-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



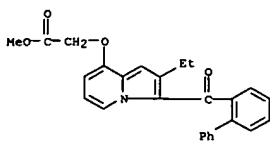
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CN Methanone, cyclohexyl[2-methyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



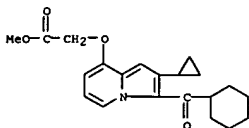
RN 177559-27-2 CAPLUS  
CN Methanone, cyclopentyl[2-methyl-8-(phenylmethoxy)-3-indoliziny]- (9CI)  
(CA INDEX NAME)



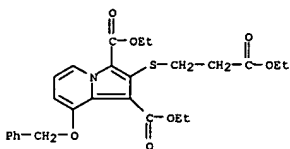
RN 177559-55-6 CAPLUS  
CN Acetic acid, [[3-(1,1'-biphenyl)-2-ylcarbonyl]-2-ethyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)



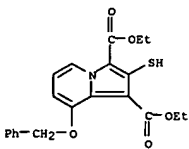
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CN Acetic acid, [[3-(cyclohexylcarbonyl)-2-cyclopropyl-8-indolizinyloxy]-, methyl ester (9CI) (CA INDEX NAME)



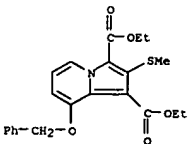
RN 177559-63-6 CAPLUS  
CN Methanone, (2-ethyl-7-methoxy-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



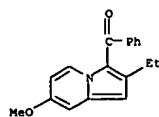
RN 177559-88-5 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



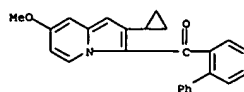
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CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



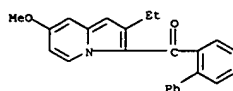
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CN Pyridinium, 2-methyl-1-(2-oxobutyl)-3-(phenylmethoxy)-, bromide (9CI)  
(CA INDEX NAME)



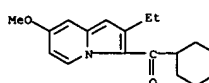
RN 177559-64-7 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl[2-cyclopropyl-7-methoxy-3-indoliziny]- (9CI) (CA INDEX NAME)



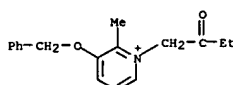
RN 177559-65-8 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-7-methoxy-3-indoliziny]- (9CI)  
(CA INDEX NAME)



RN 177559-66-9 CAPLUS  
CN Methanone, cyclohexyl[2-ethyl-7-methoxy-3-indoliziny]- (9CI) (CA INDEX NAME)

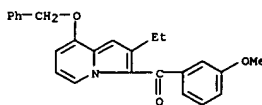


RN 177559-87-4 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

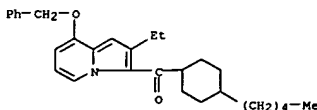


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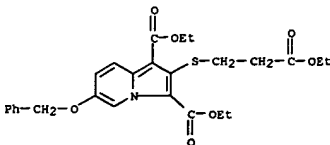
RN 182115-66-8 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny](3-methoxyphenyl)- (9CI) (CA INDEX NAME)



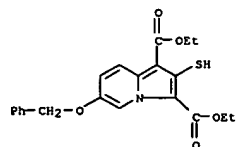
RN 182115-67-9 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indoliziny](4-pentylcyclohexyl)- (9CI) (CA INDEX NAME)



RN 182116-39-8 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-6-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 IT 182116-40-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and phospholipase A inhibitory activity of indolizine and  
 indene derivs.)  
 RN 182116-40-1 CAPLUS  
 CN 1,3-indolizinedicarboxylic acid, 2-mercapto-6-(phenylmethoxy)-, diethyl  
 ester (9CI) (CA INDEX NAME)

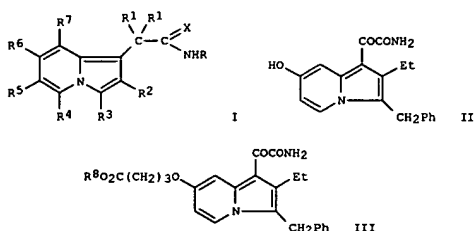


L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1996:353213 CAPLUS  
 DOCUMENT NUMBER: 125:33475  
 TITLE: preparation of indolizine derivatives as secretory  
 phospholipase A2 (sPLA2)inhibitors  
 INVENTOR(S): Dillard, Robert D.; Hagishita, Sanji; Ohtani,  
 Mitsuki  
 PATENT ASSIGNEE(S): Eli Lilly and Co., USA; Shionogi and Co., Ltd.  
 SOURCE: PCT Int. Appl., 238 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

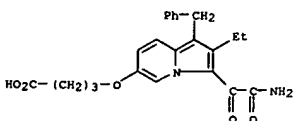
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RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2195570	AA	19960208	CA 1995-2195570	19950720
AU 9531459	A1	19960222	AU 1995-31459	19950720
EP 772596	A1	19970514	EP 1995-927422	19950720
EP 772596	B1	20031001		
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JP 10505584	T2	19980602	JP 1995-505935	19950720
HU 77867	A2	19980928	HU 1997-179	19950720
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AT 251158	E	20031015	AT 1995-927422	19950720
ES 2208685	T3	20040616	ES 1995-927422	19950720
US 6645976	B1	20031111	US 1997-765566	19970428
PRIORITY APPLN. INFO.:			US 1994-278445	A 19940721
			WO 1995-US9381	W 19950720

OTHER SOURCE(S): MARPAT 125:33475  
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L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



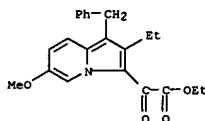
AB Indolizine derivs. [I: R = H, NH2; R1 = H, C1-3 alkyl, halo, R1R1 = O, S; R2 = H, C1-3 alkyl, halo, C3-4 cycloalkyl, etc.; R3 = C7-20 alkyl, alkenyl, alkynyl, carbocyclyl, etc.; R4, R5 = H, (un)substituted carbocyclyl, heterocyclyl, etc.; R6, R7 = H, an acid group residue linked through a C1-10 divalent chain, etc.; X = O, S], useful in treating septic shock, adult respiratory distress, etc., are prepared and formulated.  
 NaH (60%) was added to a mixture of alc. II and Br(CH2)3CO2Et in DMF with stirring under cooling and N to give 56.2% ester III (R8 = Et), which was saponified in MeOH to give 49.9% acid III (R8 = H), which showed IC50 of 1.1 μM against sPLA2 in a chromogenic assay. Capsule, tablet, etc. formulations were given.  
 IT 177556-76-2P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of indolizine derivs. as secretory phospholipase A2 (sPLA2)inhibitors)  
 RN 177556-76-2 CAPLUS  
 CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]- (9CI) (CA INDEX NAME)



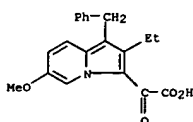
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 177558-56-4P 177558-66-6P 177558-67-7P

L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

177558-68-8P 177558-69-9P 177558-70-2P  
 177558-71-3P 177558-72-4P 177558-73-5P  
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 177559-99-4P 177559-100-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of indolizine derivs. as secretory phospholipase A2 (sPLA2)inhibitors)  
 RN 177558-40-6 CAPLUS  
 CN 3-Indolizineacetic acid, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

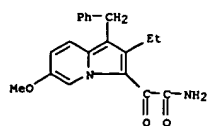


RN 177558-41-7 CAPLUS  
 CN 3-Indolizineacetic acid, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

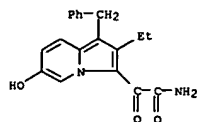


RN 177558-42-8 CAPLUS  
 CN 3-Indolizineacetamide, 2-ethyl-6-methoxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

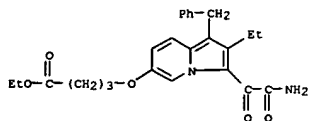




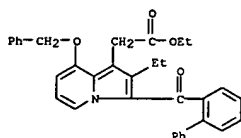
RN 177558-43-9 CAPLUS  
CN 3-Indolizineacetamide, 2-ethyl-6-hydroxy-α-oxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



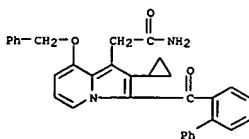
RN 177558-44-0 CAPLUS  
CN Butanoic acid, 4-[[3-(aminooxoacetyl)-2-ethyl-1-(phenylmethyl)-6-indolizinyloxy]-, ethyl ester (9CI) (CA INDEX NAME)



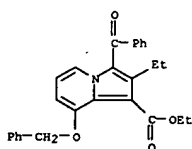
RN 177558-52-0 CAPLUS  
CN 1-Indolizineacetic acid, 3-[[1,1'-biphenyl]-2-ylcarbonyl]-2-ethyl-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



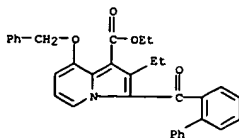
RN 177558-53-1 CAPLUS  
CN 1-Indolizineacetamide, 3-[[1,1'-biphenyl]-2-ylcarbonyl]-2-ethyl-8-



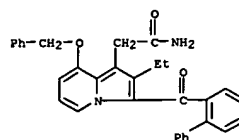
RN 177558-66-6 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



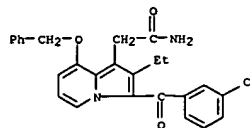
RN 177558-67-7 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-[[1,1'-biphenyl]-2-ylcarbonyl]-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



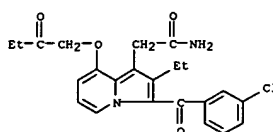
RN 177558-68-8 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-[[1,1'-biphenyl]-2-ylcarbonyl]-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



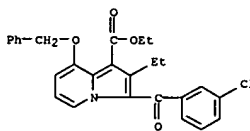
RN 177558-54-2 CAPLUS  
CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



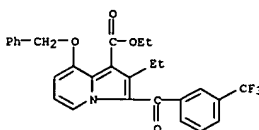
RN 177558-55-3 CAPLUS  
CN 1-Indolizineacetamide, 3-(3-chlorobenzoyl)-2-ethyl-8-(2-oxobutoxy)- (9CI) (CA INDEX NAME)



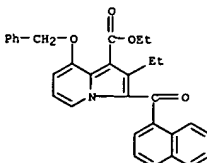
RN 177558-56-4 CAPLUS  
CN 1-Indolizineacetamide, 3-[[1,1'-biphenyl]-2-ylcarbonyl]-2-cyclopropyl-8-(phenylmethoxy)- (9CI) (CA INDEX NAME)



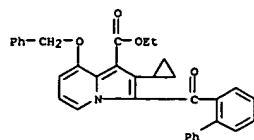
RN 177558-69-9 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-8-(phenylmethoxy)-3-[[1,1'-biphenyl]-2-ylcarbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



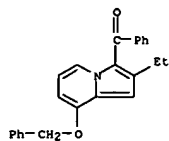
RN 177558-70-2 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-[[1,1'-biphenyl]-2-ylcarbonyl]-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



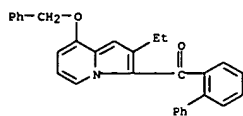
RN 177558-71-3 CAPLUS  
CN 1-Indolizinecarboxylic acid, 2-ethyl-3-[[1,1'-biphenyl]-2-ylcarbonyl]-8-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



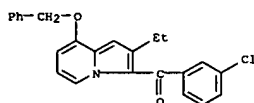
RN 177558-72-4 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]phenyl- (9CI) (CA INDEX NAME)



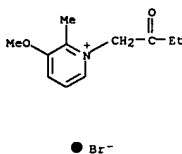
RN 177558-73-5 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



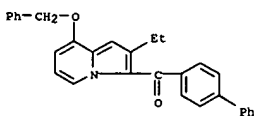
RN 177558-74-6 CAPLUS  
CN Methanone, [3-chlorophenyl][2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



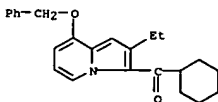
RN 177558-75-7 CAPLUS



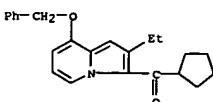
RN 177559-08-9 CAPLUS  
CN Methanone, [1,1'-biphenyl]-4-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



RN 177559-09-0 CAPLUS  
CN Methanone, cyclohexyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

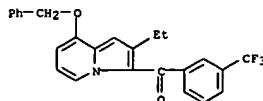


RN 177559-10-3 CAPLUS  
CN Methanone, cyclopentyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)

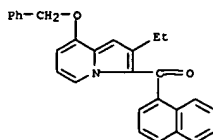


RN 177559-11-4 CAPLUS  
CN Methanone, cycloheptyl[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI)

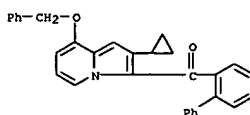
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy][3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



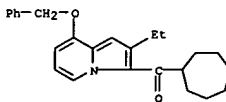
RN 177558-76-8 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-1-naphthalenyl- (9CI) (CA INDEX NAME)



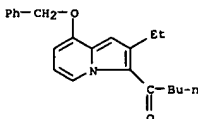
RN 177558-77-9 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl[2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



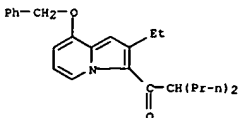
RN 177559-02-3 CAPLUS  
CN Pyridinium, 3-methoxy-2-methyl-1-(2-oxobutyl)-, bromide (9CI) (CA INDEX NAME)



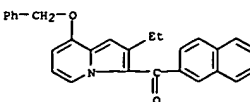
RN 177559-12-5 CAPLUS  
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



RN 177559-13-6 CAPLUS  
CN 1-Pentanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-propyl- (9CI) (CA INDEX NAME)

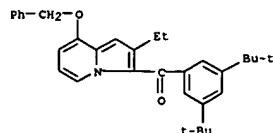


RN 177559-14-7 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyloxy]-2-naphthalenyl- (9CI) (CA INDEX NAME)

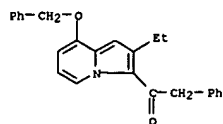


RN 177559-15-8 CAPLUS  
CN Methanone, [3,5-bis(1,1-dimethylethyl)phenyl][2-ethyl-8-(phenylmethoxy)-3-

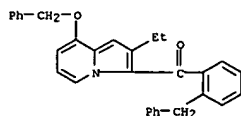
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
indolizinyll- (9CI) (CA INDEX NAME)



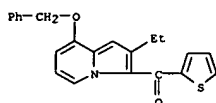
RN 177559-16-9 CAPLUS  
CN Ethanone, 1-[2-ethyl-8-(phenylmethoxy)-3-indolizinyll]-2-phenyl- (9CI)  
(CA INDEX NAME)



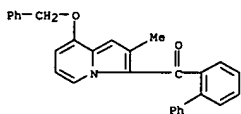
RN 177559-17-0 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll][2-(phenylmethyl)phenyl]- (9CI) (CA INDEX NAME)



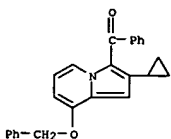
RN 177559-18-1 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll]-2-thienyl- (9CI)  
(CA INDEX NAME)



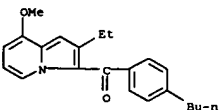
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



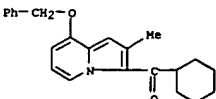
RN 177559-23-8 CAPLUS  
CN Methanone, [2-cyclopropyl-8-(phenylmethoxy)-3-indolizinyll]phenyl- (9CI)  
(CA INDEX NAME)



RN 177559-24-9 CAPLUS  
CN Methanone, (4-butylphenyl)(2-ethyl-8-methoxy-3-indolizinyll)- (9CI) (CA INDEX NAME)

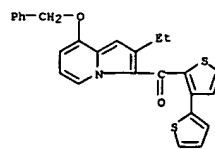


RN 177559-25-0 CAPLUS  
CN Methanone, cyclohexyl[2-methyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI)  
(CA INDEX NAME)

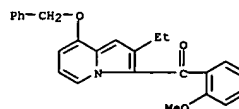


RN 177559-26-1 CAPLUS  
CN Methanone, cyclohexyl[2-cyclopropyl-8-methoxy-3-indolizinyll]- (9CI) (CA INDEX NAME)

L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 177559-19-2 CAPLUS  
CN Methanone, [2,3'-bithiophen]-2'-yl[2-ethyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI) (CA INDEX NAME)

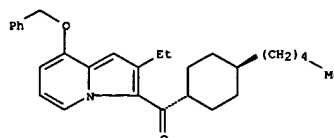


RN 177559-20-5 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll](2-methoxyphenyl)- (9CI) (CA INDEX NAME)



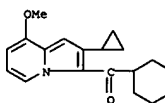
RN 177559-21-6 CAPLUS  
CN Methanone, [2-ethyl-8-(phenylmethoxy)-3-indolizinyll](4-pentylcyclohexyl)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

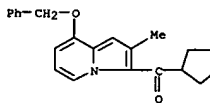


RN 177559-22-7 CAPLUS  
CN Methanone, [1,1'-biphenyl]-2-yl[2-methyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI) (CA INDEX NAME)

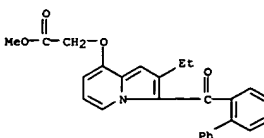
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



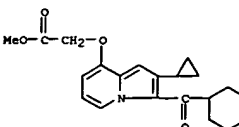
RN 177559-27-2 CAPLUS  
CN Methanone, cyclopentyl[2-methyl-8-(phenylmethoxy)-3-indolizinyll]- (9CI)  
(CA INDEX NAME)



RN 177559-55-6 CAPLUS  
CN Acetic acid, [[3-((1,1'-biphenyl)-2-ylcarbonyl)-2-ethyl-8-indolizinyll]oxy]-, methyl ester (9CI) (CA INDEX NAME)

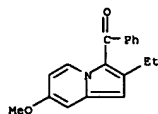


RN 177559-56-7 CAPLUS  
CN Acetic acid, [[3-(cyclohexylcarbonyl)-2-cyclopropyl-8-indolizinyll]oxy]-, methyl ester (9CI) (CA INDEX NAME)

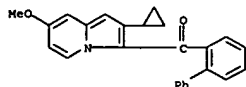


RN 177559-63-6 CAPLUS

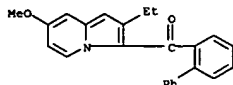
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Methanone, (2-ethyl-7-methoxy-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



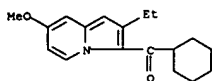
RN 177559-64-7 CAPLUS  
 CN Methanone, [1,1'-biphenyl]-2-yl(2-cyclopropyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 177559-65-8 CAPLUS  
 CN Methanone, [1,1'-biphenyl]-2-yl(2-ethyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)

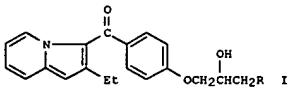


RN 177559-66-9 CAPLUS  
 CN Methanone, cyclohexyl(2-ethyl-7-methoxy-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 177559-87-4 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-[(3-ethoxy-3-oxopropyl)thio]-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)

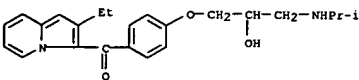
L15 ANSWER 22 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1995:451095 CAPLUS  
 DOCUMENT NUMBER: 123:256467  
 TITLE: Antiarrhythmic agents. II. Synthesis of 2-ethyl-3-[4-(2-hydroxy-3-alkylaminopropoxy)benzoyl]indolizines and their antiarrhythmic activity  
 AUTHOR(S): Wang, Rubin; Peng, Sixun; Hua, Weiyl  
 CORPORATE SOURCE: Dept. of Pharmaceutical Chemistry, Shandong Medical University, Jinan, Peop. Rep. China  
 SOURCE: Shandong Yike Daxue Xuebao (1994), 32(4), 338-42  
 CODEN: SYXBEE; ISSN: 1000-0496  
 PUBLISHER: Shandong Yike Daxue  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Chinese  
 GI



AB Title compds. I (R = alkylamino, dialkylamino, benzyl, substituted phenethylamino) prepared by amination of 2-ethyl-3-[4-(epoxypropoxy)benzoyl]indolizines with RH. I (R = tert-Bu, 3,4-dimethoxyphenethyl) markedly antagonize CHCl<sub>3</sub>-induced arrhythmia in rats.

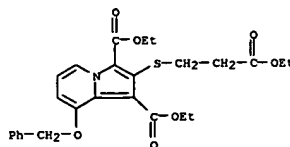
IT 152429-39-5P 152429-40-8P 152429-41-9P  
 152429-42-0P 152429-43-1P 152429-44-2P  
 152429-45-3P 152429-46-4P 152429-47-5P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (synthesis of ethyl(aminopropoxy)benzoyl]indolizines and their antiarrhythmic activity)

RN 152429-39-5 CAPLUS  
 CN Methanone, (2-ethyl-3-indoliziny)[4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]phenyl]- (9CI) (CA INDEX NAME)

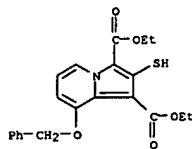


RN 152429-40-8 CAPLUS  
 CN Methanone, [4-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)

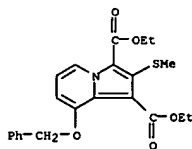
L15 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



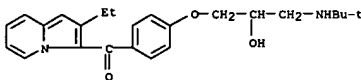
RN 177559-88-5 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-mercapto-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



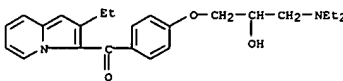
RN 177559-89-6 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-8-(phenylmethoxy)-, diethyl ester (9CI) (CA INDEX NAME)



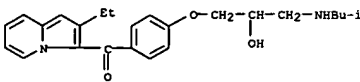
L15 ANSWER 22 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



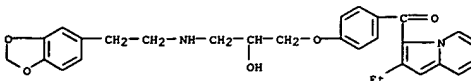
RN 152429-41-9 CAPLUS  
 CN Methanone, [4-[3-(diethylamino)-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



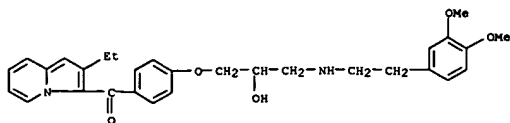
RN 152429-42-0 CAPLUS  
 CN Methanone, (2-ethyl-3-indoliziny)[4-[2-hydroxy-3-[(2-methylpropyl)amino]propoxy]phenyl]- (9CI) (CA INDEX NAME)



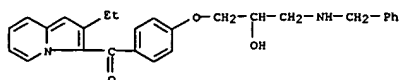
RN 152429-43-1 CAPLUS  
 CN Methanone, [4-[3-[(2-(1,3-benzodioxol-5-yl)ethyl)amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



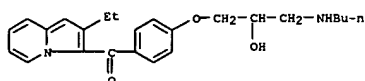
RN 152429-44-2 CAPLUS  
 CN Methanone, [4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



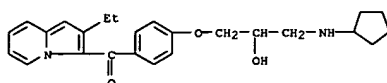
RN 152429-45-3 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyl)[4-[2-hydroxy-3-((phenylmethyl)amino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 152429-46-4 CAPLUS  
CN Methanone, [4-[3-(butylamino)-2-hydroxypropoxy]phenyl](2-ethyl-3-indolizinyl)- (9CI) (CA INDEX NAME)

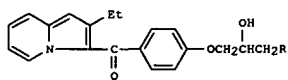


RN 152429-47-5 CAPLUS  
CN Methanone, [4-[3-(cyclopentylamino)-2-hydroxypropoxy]phenyl](2-ethyl-3-indolizinyl)- (9CI) (CA INDEX NAME)



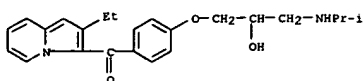
IT 58963-28-3P 64466-53-1P 64467-11-4P  
152429-48-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis of ethyl(aminopropoxybenzoyl)indolizines and their antiarrhythmic activity)  
RN 58963-28-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

L15 ANSWER 23 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1995:302228 CAPLUS  
DOCUMENT NUMBER: 122:105585  
TITLE: Studies on antiarrhythmic agents. I. Synthesis of 2-ethyl-3-(4-(2-hydroxy-3-alkylaminopropoxy)benzoyl)indolizines and their antiarrhythmic activity  
AUTHOR(S): Wang, Rubin; Peng, Sixun; Hua, Weiyl  
CORPORATE SOURCE: Pharmaceutical Department, Shandong Medical Univ., Jian, 250012, Peop. Rep. China  
SOURCE: Zhongguo Yaowu Huaxue Zazhi (1994), 4(3), 158-61, 170  
CODEN: ZYHZE; ISSN: 1005-0108  
PUBLISHER: Zhongguo Yaowu Huaxue Zazhi Bianjibu  
DOCUMENT TYPE: Journal  
LANGUAGE: Chinese  
GI

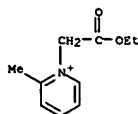


AB Title compds. I (R = Me2CHNH, Me3CNH, Et2N, Me2CHCH2NH, 3,4-methylenedioxyphenylethylamino, 3,4-dimethoxyphenylethylamino, PhCH2NH, BuNH, cyclopentyl) were prepared in 7 steps starting from 2-methylpyridine. I (R = Me3CNH) antagonized 80% of CHCl3-induced arrhythmia in mice.

IT 152429-39-5P 152429-40-8P 152429-41-9P  
152429-42-0P 152429-43-1P 152429-44-2P  
152429-45-3P 152429-46-4P 152429-47-5P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study); UNCLASSIFIED); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(synthesis of (aminopropoxybenzoyl)indolizines and their antiarrhythmic activity)  
RN 152429-39-5 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyl)[4-[2-hydroxy-3-((1-methylethyl)amino)propoxy]phenyl]- (9CI) (CA INDEX NAME)

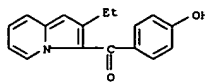


RN 152429-40-8 CAPLUS  
CN Methanone, [4-[3-((1,1-dimethylethyl)amino)-2-hydroxypropoxy]phenyl](2-ethyl-3-indolizinyl)- (9CI) (CA INDEX NAME)

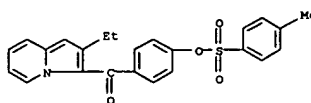


● Cl<sup>-</sup>

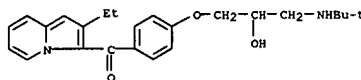
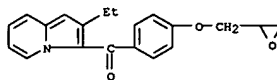
RN 64466-53-1 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyl)(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



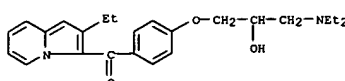
RN 64467-11-4 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyl)[4-[(4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



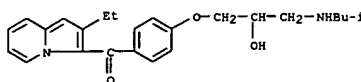
RN 152429-48-6 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyl)[4-(oxiranylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



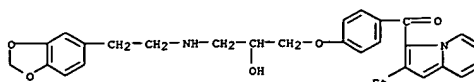
RN 152429-41-9 CAPLUS  
CN Methanone, [4-[3-(diethylamino)-2-hydroxypropoxy]phenyl](2-ethyl-3-indolizinyl)- (9CI) (CA INDEX NAME)



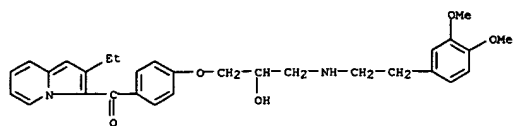
RN 152429-42-0 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyl)[4-[2-hydroxy-3-[(2-methylpropyl)amino]propoxy]phenyl]- (9CI) (CA INDEX NAME)



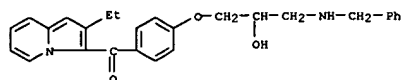
RN 152429-43-1 CAPLUS  
CN Methanone, [4-[3-[(2-(1,3-benzodioxol-5-yl)ethyl)amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indolizinyl)- (9CI) (CA INDEX NAME)



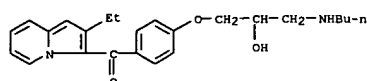
RN 152429-44-2 CAPLUS  
CN Methanone, [4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)amino]-2-hydroxypropoxy]phenyl](2-ethyl-3-indolizinyl)- (9CI) (CA INDEX NAME)



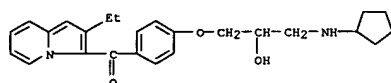
RN 152429-45-3 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyloxy)[4-(2-hydroxy-3-((phenylmethyl)amino)propoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 152429-46-4 CAPLUS  
CN Methanone, [4-(3-(butylamino)-2-hydroxypropoxy)phenyl](2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



RN 152429-47-5 CAPLUS  
CN Methanone, [4-(3-(cyclopentylamino)-2-hydroxypropoxy)phenyl](2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

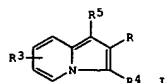


IT 58963-28-3P 64466-53-1P 64467-11-4P  
152429-48-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis of (aminopropoxybenzoyl)indolizines and their antiarrhythmic activity)  
RN 58963-28-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

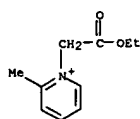
L15 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1994:270423 CAPLUS  
DOCUMENT NUMBER: 120:270423  
TITLE: Preparation of 1-(4-hydroxyphenylsulfonyl)indolizines as pharmaceutical intermediates  
INVENTOR(S): Gubin, Jean; Renard, Michel  
PATENT ASSIGNEE(S): Elf Sanofi SA, Fr.  
SOURCE: Eur. Pat. Appl., 18 pp.  
DOCUMENT TYPE: CODEN: EPXDXW  
LANGUAGE: Patent  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION: French

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 576349	A1	19931229	EP 1993-401602	19930622
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
FR 2692578	A1	19931224	FR 1992-7663	19920623
FR 2692578	B1	19950630		
CA 2098982	CA	19931224	CA 1993-2098982	19930622
HU 64542	A2	19940128	HU 1993-1841	19930622
JP 07010873	A2	19950113	JP 1993-150700	19930622
US 5403933	A	19950404	US 1993-80173	19930623
US 5739340	A	19980414	US 1997-825773	19970402
PRIORITY APPLN. INFO.:				
			FR 1992-7663	A 19920623
			US 1993-80173	A3 19930623
			US 1995-384837	B1 19950207

OTHER SOURCE(S): MARPAT 120:270423  
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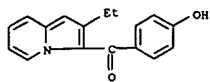


AB Title compds. [I; R = (cyclo)alkyl, Ph: R3 = H, alkyl; R4 = carboxy group precursor; R5 = (substituted) 4-(R6O)C6H4X; R6 = H; X = S or SO2] were prepared as intermediates for pharmaceuticals I (R6 = aminoalkyl). Thus, 2-picoline was N-alkylated by BrCH2CO2Me and the product cyclocondensed with (Me2CHCO)2O to give, after thiolation by 4-(HO)C6H4SH and oxidation, I  
(R = CHMe2, R3 = H, R5 = 4-(R6O)C6H4SO2) (II; R4 = CO2Me, R6 = H) which was decarboxylated and the product condensed with Cl(CH2)3NMeCH2CH2C6H3(OMe)2-3,4 to give II [R4 = H, R6 = (CH2)3NMeCH2CH2C6H3(OMe)2-3,4].  
IT 130745-92-5P 154190-14-4P 154190-16-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, in preparation of pharmaceutical intermediate)  
RN 130745-92-5 CAPLUS

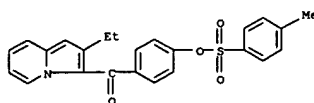


● Cl<sup>-</sup>

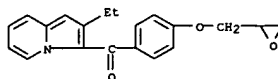
RN 64466-53-1 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyloxy)(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



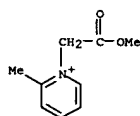
RN 64467-11-4 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyloxy)(4-((4-methylphenyl)sulfonyl)oxy)phenyl)- (9CI) (CA INDEX NAME)



RN 152429-48-6 CAPLUS  
CN Methanone, (2-ethyl-3-indolizinyloxy)(4-(oxiranylmethoxy)phenyl)- (9CI) (CA INDEX NAME)

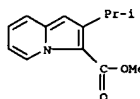


L15 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

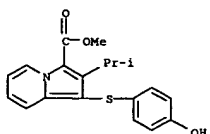


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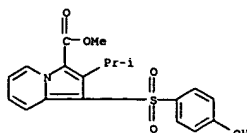
RN 154190-14-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(1-methylethyl)-; methyl ester (9CI) (CA INDEX NAME)



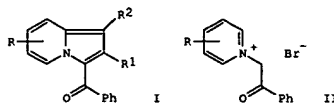
RN 154190-16-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-[(4-hydroxyphenyl)thio]-2-(1-methylethyl)-; methyl ester (9CI) (CA INDEX NAME)



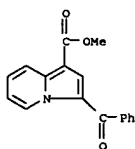
IT 154190-17-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as pharmaceutical intermediate)  
RN 154190-17-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-[(4-hydroxyphenyl)sulfonyl]-2-(1-methylethyl)-; methyl ester (9CI) (CA INDEX NAME)



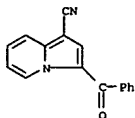
ACCESSION NUMBER: 1994:270005 CAPLUS  
 DOCUMENT NUMBER: 120:270005  
 TITLE: A facile one-step synthesis of aromatic indolizines by  
 1,3-dipolar cycloaddition of pyridinium and related heteroaromatic ylides with alkenes in the presence of TPCD [Copy4(HCrO4)2]  
 AUTHOR(S): Wei, Xudong; Hu, Yuefei; Li, Tingsheng; Hu, Hongwen  
 CORPORATE SOURCE: Dep. Chem., Nanjing Univ., Nanjing, 210008, Peop. Rep.  
 SOURCE: China  
 Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1993), (20), 2487-9  
 CODEN: JCPRB4; ISSN: 0300-922X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 120:270005  
 GI



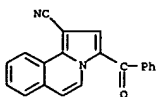
AB A facile and general one-step method is presented for the preparation of aromatic indolizine compds. I (R-R2 = alkyl, etc.) in moderate to high yields (53-99%) by reaction of the pyridinium N-ylides II (R = alkyl), quinolinium ylide or isoquinolinium ylide with various olefinic dipolarophiles, such as acrylonitrile, Me acrylate, acrylamide, di-Et maleate and Me crotonate, resp., in the presence of a new oxidant TPCD [Copy4(HCrO4)2, tetrapyridinecobalt(II) dichromate] at 90 °C for 2 h in DMF.  
 IT 17281-79-7P, Methyl 3-benzoylindolizine-1-carboxylate  
 25627-81-0P, 3-Benzoyl-1-cyanoindolizine 25627-83-2P  
 25627-85-4P 25627-86-5P 154224-58-5P  
 154224-59-6P 154224-60-9P 154224-61-0P  
 154224-62-1P 154224-63-2P 154224-64-3P  
 154224-65-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation from pyridinium ylide and alkene)  
 RN 17281-79-7 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



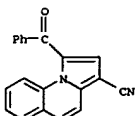
RN 25627-81-0 CAPLUS  
 CN 1-Indolizinecarboxitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



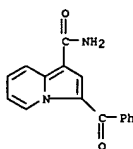
RN 25627-83-2 CAPLUS  
 CN Pyrrole[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



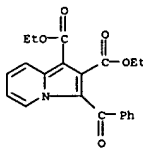
RN 25627-85-4 CAPLUS  
 CN Pyrrole[1,2-a]quinoline-3-carbonitrile, 1-benzoyl- (8CI, 9CI) (CA INDEX NAME)



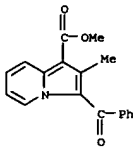
RN 25627-86-5 CAPLUS  
 CN 1-Indolizinecarboxamide, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



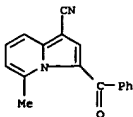
RN 154224-58-5 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 154224-59-6 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, methyl ester (9CI) (CA INDEX NAME)

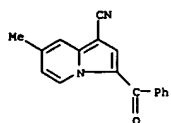


RN 154224-60-9 CAPLUS  
 CN 1-Indolizinecarboxitrile, 3-benzoyl-5-methyl- (9CI) (CA INDEX NAME)

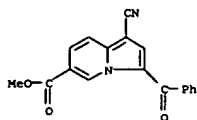


L15 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

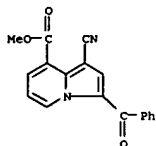
RN 154224-61-0 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-benzoyl-7-methyl- (9CI) (CA INDEX NAME)



RN 154224-62-1 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-benzoyl-1-cyano-, methyl ester (9CI) (CA INDEX NAME)

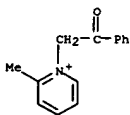


RN 154224-63-2 CAPLUS  
CN 8-Indolizinecarboxylic acid, 3-benzoyl-1-cyano-, methyl ester (9CI) (CA INDEX NAME)



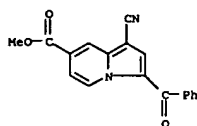
RN 154224-64-3 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-benzoyl-1-cyano-, methyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

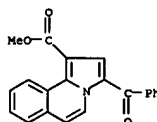


• Br<sup>-</sup>

L15 ANSWER 25 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

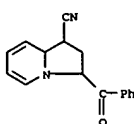


RN 154224-65-4 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-benzoyl-, methyl ester (9CI) (CA INDEX NAME)



IT 32896-92-7  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reactant for (benzoyl)indolizine)

RN 32896-92-7 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI, 9CI) (CA INDEX NAME)



IT 32896-98-3, Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reactant, dipolar cycloaddn. of pyridinium ylide alkenes)

RN 32896-98-3 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 26 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:191670 CAPLUS  
DOCUMENT NUMBER: 120:191670  
TITLE: A new approach for the synthesis of fused pyrroles.  
The synthesis of acyl substituted

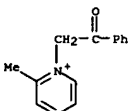
pyrrolo[1,2-x]azines  
AUTHOR(S): Copar, Anton; Stanovnik, Branko; Tisler, Miha  
CORPORATE SOURCE: Dep. Chem., Univ. Ljubljana, Ljubljana, 61000, Slovenia  
SOURCE: Journal of Heterocyclic Chemistry (1993), 30(6), 1577-9  
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 120:191670  
AB N-Acetyl- and N-phenacyl quaternary salts of α-Me substituted heterocycles were converted with DMFDMA into the corresponding 3-acylpyrrolo[1,2-a]pyridine, 7-benzoylpyrrolo-[1,2-c]pyrimidine, and 6-benzoylpyrrolo[1,2-a]pyrazine derivs. A concurrent reaction produced

Me and Ph substituted pyrrolo[1,2-x]azines.

IT 32896-98-3 153854-94-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of, with DMFDMA)

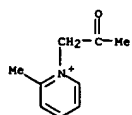
RN 32896-98-3 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



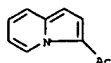
• Br<sup>-</sup>

RN 153854-94-5 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxopropyl)-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

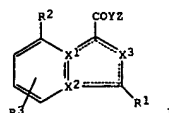
IT 25314-91-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 25314-91-4 CAPLUS  
 CN Ethanone, 1-(3-indolizynyl)- (9CI) (CA INDEX NAME)



L15 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1993:560281 CAPLUS  
 DOCUMENT NUMBER: 119:160281  
 TITLE: Imidazopyridines and indolizines as 5-HT<sub>4</sub> receptor antagonists  
 INVENTOR(S): King, Francis David; Gaster, Laramie Mary; Joiner, Graham Francis  
 PATENT ASSIGNEE(S): SmithKline Beecham PLC, UK  
 SOURCE: PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

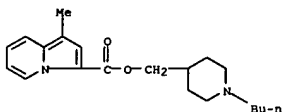
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9308187	A1	19930429	WO 1992-GB1886	19921015
W: AU, CA, JP, KR, US				
RU: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
AU 9227526	A1	19930521	AU 1992-27526	19921015
EP 609278	A1	19940810	EP 1992-921182	19921015
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 07500588	T2	19950119	JP 1992-507530	19921015
ZA 9208163	A	19930802	ZA 1992-8163	19921022
PRIORITY APPLN. INFO.:			GB 1991-22623	A 19911024
			GB 1992-5427	A 19920312
			WO 1992-GB1886	A 19921015

OTHER SOURCE(S): MARPAT 119:160281  
 GI



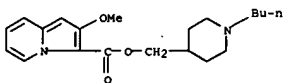
AB The title compds. I [R<sub>1</sub> = H, halogen, CF<sub>3</sub>, C1-6 alkoxy, C1-6 alkyl, C1-6 alkylthio, C1-6 alkylsulfonyl, C1-6 alkylsulfonfyl, C1-7 acyl, CN, C1-6 alkoxy, C1-6 alkoxy, etc.; R<sub>2</sub> = H, halogen, C1-6 alkyl, C1-6 alkoxy, NO<sub>2</sub>, NH<sub>2</sub>, C1-6 alkyl (sic), CN; R<sub>3</sub> = H, halogen, C1-6 alkyl, C1-6 alkoxy; one of X<sub>1</sub> and X<sub>2</sub> is N while the other is C; Y = O, NH; Z = (heterocyclyl)alkyl], useful as 5-HT<sub>4</sub> receptor antagonists for the treatment of irritable bowel syndrome (no data), stroke (no data), and atrial arrhythmias (no data),  
 are prepared Thus, 1-(1-butyl-4-piperidyl)methyl-3-ethylindoline-1-carboxylate was prepared from 2-ethylindolinecarboxylic acid and 1-butyl-4-hydroxymethylpiperidine.  
 IT 149721-85-7P 149721-86-8P 149721-90-4P  
 149721-91-5P 150115-00-7P 150145-81-6P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

L15 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (prepn. and hydroxytryptamine receptor antagonist activity of)  
 RN 149721-85-7 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-methyl-, (1-butyl-4-piperidyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



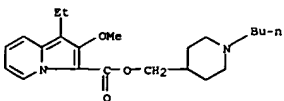
● HCl

RN 149721-86-8 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 2-methoxy-, (1-butyl-4-piperidyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



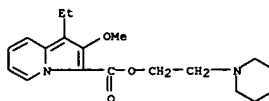
● HCl

RN 149721-90-4 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-ethyl-2-methoxy-, (1-butyl-4-piperidyl)methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 149721-91-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-ethyl-2-methoxy-, 2-(1-piperidyl)ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

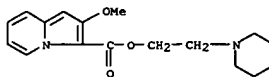


● HCl

RN 150115-00-7 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 2-methoxy-, 2-(1-piperidyl)ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 149741-23-1  
 CMF C17 H22 N2 O3



CM 2

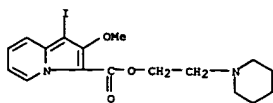
CRN 144-62-7  
 CMF C2 H2 O4



RN 150145-81-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-iodo-2-methoxy-, 2-(1-piperidyl)ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

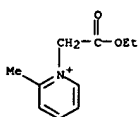
CRN 150145-80-5  
 CMF C17 H21 I N2 O3



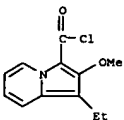
CH 2

CRN 144-62-7  
CMF C2 H2 O4

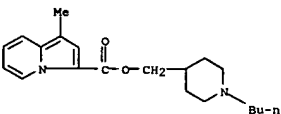
IT 55814-02-3P 84919-62-0P 109847-25-8P,  
3-Acetyl-1-methylindolizine 115813-14-4P, 1-Methylindolizine-3-  
carbonyl chloride 115813-15-5P, 2-Methoxyindolizine-3-carbonyl  
chloride 149741-27-5P 149741-30-0P  
149741-31-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and reaction of, in manufacture of hydroxytryptamine  
receptor  
antagonists)  
RN 55814-02-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX  
NAME)

● Br<sup>-</sup>

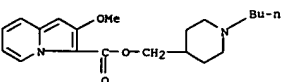
RN 84919-62-0 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-propyl-, bromide (9CI) (CA INDEX  
NAME)



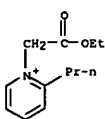
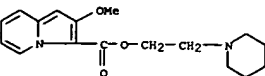
RN 149741-30-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-methyl-, (1-butyl-4-piperidinyl)methyl  
ester (9CI) (CA INDEX NAME)



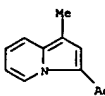
RN 149741-31-1 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-methoxy-, (1-butyl-4-piperidinyl)methyl  
ester (9CI) (CA INDEX NAME)



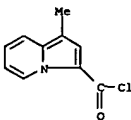
IT 149741-23-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, in preparation of hydroxytryptamine receptor  
antagonists)  
RN 149741-23-1 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-methoxy-, 2-(1-piperidinyl)ethyl ester  
(9CI) (CA INDEX NAME)

● Br<sup>-</sup>

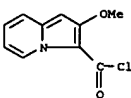
RN 109847-25-8 CAPLUS  
CN Ethanone, 1-(1-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 115813-14-4 CAPLUS  
CN 3-Indolizinecarbonyl chloride, 1-methyl- (9CI) (CA INDEX NAME)



RN 115813-15-5 CAPLUS  
CN 3-Indolizinecarbonyl chloride, 2-methoxy- (9CI) (CA INDEX NAME)

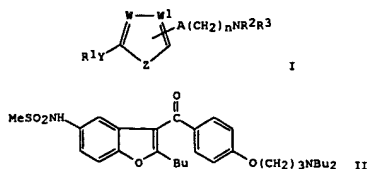


RN 149741-27-5 CAPLUS  
CN 3-Indolizinecarbonyl chloride, 1-ethyl-2-methoxy- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1992:426336 CAPLUS  
DOCUMENT NUMBER: 117:26336  
TITLE: Preparation of benzofurans, benzothiophenes, indoles,  
and indolizines as cardiovascular agents  
INVENTOR(S): Gubin, Jean; Lucchetti, Jean; Inion, Henri;  
Chatelein, Pierre; Rosseels, Gilbert; Kilenyi, Steven  
PATENT ASSIGNEE(S): Sanofi SA, Fr.; Societe Anon. Sanofi-Pharma N. V.  
SOURCE: Eur. Pat. Appl., 81 pp.  
CODEN: EPXNDW  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 471609	A1	19920219	EP 1991-402201	19910806
EP 471609	B1	19961127		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FR 2665444	A1	19920207	FR 1990-10036	19900806
FR 2665444	B1	19921127		
CA 2047773	AA	19920207	CA 1991-2047773	19910724
CA 2047773	C	20000912		
US 5223510	A	19930629	US 1991-736580	19910726
ZA 9105934	A	19930331	ZA 1991-5934	19910729
IL 98991	A1	19951208	IL 1991-98991	19910729
AU 9181428	A1	19920213	AU 1991-81428	19910730
AU 648569	B2	19940428		
FI 9103704	A	19920207	FI 1991-3704	19910802
FI 114914	B1	20050131		
NO 9103033	A	19920207	NO 1991-3033	19910805
NO 179042	B	19960415		
NO 179042	C	19960724		
BR 9103354	A	19920505	BR 1991-3354	19910805
JP 04316554	A2	19921106	JP 1991-195431	19910805
JP 2795759	B2	19980910		
PL 168044	B1	19951230	PL 1991-291334	19910805
RU 2095357	C1	19971110	RU 1991-5001351	19910805
CZ 298527	B6	20010711	CZ 1991-2427	19910805
SK 283527	B6	20030911	SK 1991-2427	19910805
HU 62280	A2	19930428	HU 1991-2610	19910806
HU 218271	B	20000728		
AT 145645	E	19961215	AT 1991-402201	19910806
ES 2096639	T3	19970316	ES 1991-402201	19910806
KR 190673	B1	19990601	KR 1991-13726	19910806
			FR 1990-10036	A 19900806
PRIORITY APPL. INFO.:				
			CS 1991-2427	A 19910805

OTHER SOURCE(S): MARPAT 117:26336  
GI

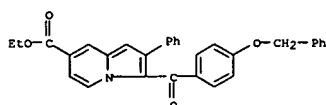


AB Title compds. I (R1 = various (un)substituted benzofuryl, benzothienyl, indolyl, and indoliziny groups; Y = CO, CH(OR4); R2 = H, alkyl; R3 = alkyl, certain (hetero)aryl and (hetero)aralkyl; or R2R3 = alkylene or alkenylene optionally substituted by Ph or interrupted by O, NH, alkyl- or phenylimino, or N; R4 = H, alkyl, acyl; A = O, S, NHCO; when W = W' = CH or N, Z = O or S; or W, W', and Z form (un)substituted benzene nucleus; n = 1-5) were prepared. For example, 2-butyl-5-nitrobenzofuran (preparation given) underwent Friedel-Crafts reaction with anisoyl chloride and SnCl4 to give 83.5% 3-(4-methoxybenzoyl) derivative, which was subjected to demethylation by AlCl3 (90.1%), etherification with Cl(CH2)3NBu2 (88.76%), hydrogenation of the NO2 group (95.28%), and N-methanesulfonylation (61.1%) to give title compound II, isolated as the HCl salt. At 10 mg/kg in anesthetized rats, II increased the duration of action potential by 60%. A formulation, 35 syntheses of I, approx. 100 addnl. listed I, addnl. action potential data, and antiadrenergic data for some I, are given. I are also said to be useful as potentiators of anticancer agents.

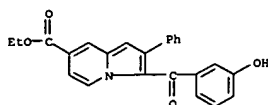
IT 54342-81-3P 141645-79-6P 141645-81-0P  
141645-82-1P 141645-83-2P 141645-84-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, in preparation of cardiovascular agents)

RN 54342-81-3 CAPLUS  
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

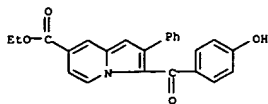
L15 ANSWER 28 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CN 7-Indolizinecarboxylic acid, 2-phenyl-3-(4-(phenylmethoxy)benzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 141645-83-2 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-(3-hydroxybenzoyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

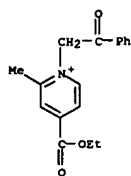


RN 141645-84-3 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-(4-hydroxybenzoyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

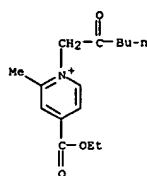


IT 141626-15-5P 141626-16-6P 141626-17-7P  
141626-18-8P 141626-19-9P 141626-20-2P  
141626-21-3P 141627-05-6P 141627-06-7P  
141627-08-9P 141627-09-0P 141627-10-3P  
141627-11-4P 141627-13-6P 141627-15-8P  
141627-16-9P 141627-17-0P 141627-25-0P  
141627-26-1P 141627-27-2P 141627-28-3P  
141627-30-7P 141627-32-9P 141627-38-5P  
141645-00-3P 141645-01-4P 141645-09-2P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as cardiovascular agent)

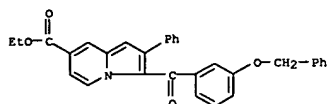
RN 141626-15-5 CAPLUS  
CN 7-Indolizinecarboxylic acid, 2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)



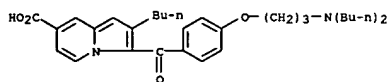
RN 141645-79-6 CAPLUS  
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



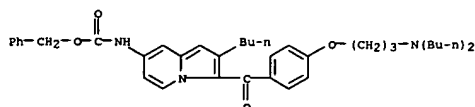
RN 141645-81-0 CAPLUS  
CN 7-Indolizinecarboxylic acid, 2-phenyl-3-[3-(phenylmethoxy)benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)



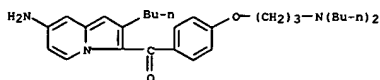
RN 141645-82-1 CAPLUS



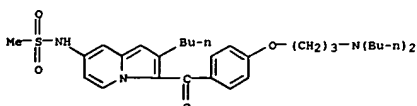
RN 141626-16-6 CAPLUS  
CN Carbamic acid, {2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]-, phenylmethyl ester (9CI) (CA INDEX NAME)



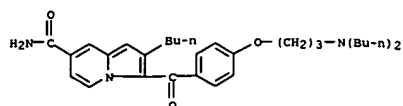
RN 141626-17-7 CAPLUS  
CN Methanone, (7-amino-2-butyl-3-indoliziny)[4-[3-(dibutylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



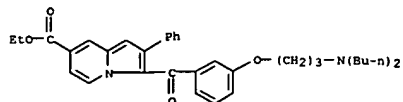
RN 141626-18-8 CAPLUS  
CN Methanesulfonamide, N-[2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]- (9CI) (CA INDEX NAME)



RN 141626-19-9 CAPLUS  
CN 7-Indolizinecarboxamide, 2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]- (9CI) (CA INDEX NAME)



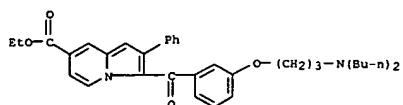
RN 141626-20-2 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 141626-21-3 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 141626-20-2  
CMF C35 H42 N2 O4

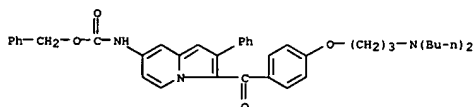


CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 141627-05-6 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

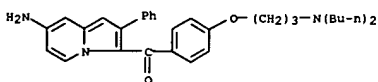


CM 2

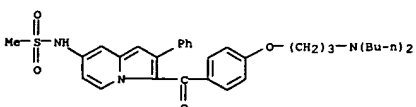
CRN 144-62-7  
CMF C2 H2 O4



RN 141627-09-0 CAPLUS  
CN Methanone, (7-amino-2-phenyl-3-indoliziny)[4-[3-(dibutylamino)propoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 141627-10-3 CAPLUS  
CN Methanesulfonamide, N-[3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-7-indoliziny]-, monohydrochloride (9CI) (CA INDEX NAME)

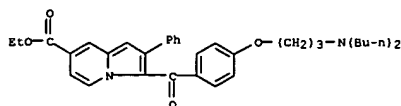


● HCl

RN 141627-11-4 CAPLUS  
CN 7-Indolizinecarboxamide, 2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-N-methyl- (9CI) (CA INDEX NAME)

CM 1

CRN 141627-04-5  
CMF C35 H42 N2 O4

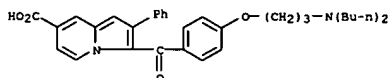


CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 141627-06-7 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

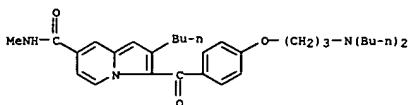


● HCl

RN 141627-08-9 CAPLUS  
CN Carbamic acid, [3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-7-indoliziny]-, phenylmethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

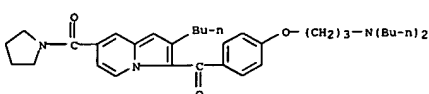
CRN 141627-07-8  
CMF C40 H45 N3 O4



RN 141627-13-6 CAPLUS  
CN Pyrrolidine, 1-[(2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]carbonyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 141627-12-5  
CMF C35 H49 N3 O3



CM 2

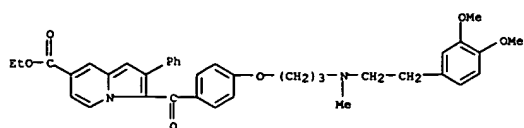
CRN 144-62-7  
CMF C2 H2 O4



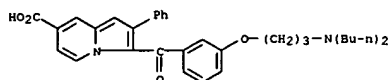
RN 141627-15-8 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[4-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propoxy]benzoyl]-2-phenyl-, ethyl ester, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

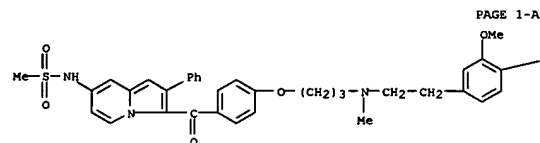
CRN 141627-14-7  
CMF C38 H40 N2 O6



CH 2

CRN 144-62-7  
CMF C2 H2 O4RN 141627-16-9 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[3-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

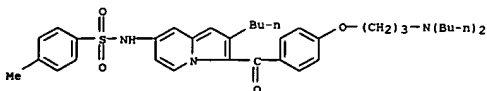
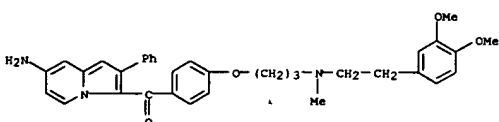
● HCl

RN 141627-17-0 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-2-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

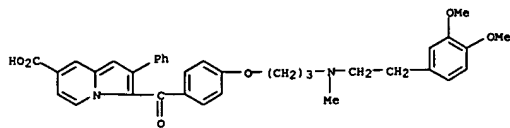
● HCl

PAGE 1-B

—OMe

RN 141627-27-2 CAPLUS  
CN Benzenesulfonamide, N-[2-butyl-3-[4-[3-(dibutylamino)propoxy]benzoyl]-7-indoliziny]-4-methyl- (9CI) (CA INDEX NAME)RN 141627-28-3 CAPLUS  
CN Methanone, (7-amino-2-phenyl-3-indoliziny)[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]phenyl]- (9CI) (CA INDEX NAME)RN 141627-30-7 CAPLUS  
CN Methanesulfonamide, N-[2-butyl-3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-7-indoliziny]-N-(methylsulfonyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

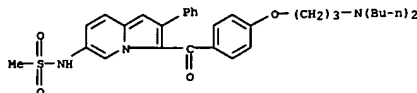
CH 1



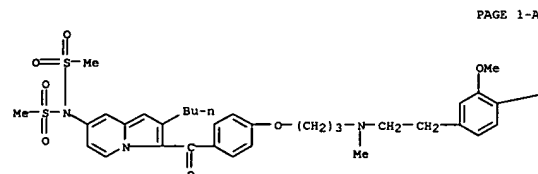
● HCl

RN 141627-25-0 CAPLUS  
CN Methanesulfonamide, N-[3-[4-[3-(dibutylamino)propoxy]benzoyl]-2-phenyl-6-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 141627-24-9  
CMF C33 H41 N3 O4 S

CH 2

CRN 144-62-7  
CMF C2 H2 O4RN 141627-26-1 CAPLUS  
CN Methanesulfonamide, N-[3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-2-phenyl-7-indoliziny]-, monohydrochloride (9CI) (CA INDEX NAME)CRN 141627-29-4  
CMF C35 H45 N3 O8 S2

PAGE 1-A

PAGE 1-B

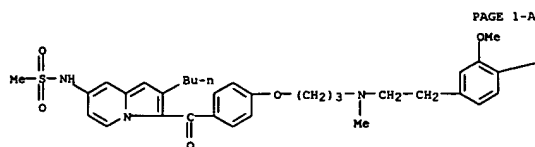
—OMe

CH 2

CRN 144-62-7  
CMF C2 H2 O4RN 141627-32-9 CAPLUS  
CN Methanesulfonamide, N-[2-butyl-3-[4-[3-[(2-(3,4-dimethoxyphenyl)ethyl)methylamino]propoxy]benzoyl]-7-indoliziny]-, ethanedioate (2:3) (9CI) (CA INDEX NAME)

CH 1

CRN 141627-31-8  
CMF C34 H43 N3 O6 S



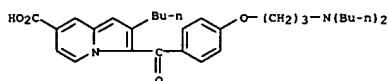
PAGE 1-B

-OMe

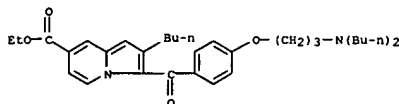
CM 2

CRN 144-62-7  
CMF C2 H2 O4

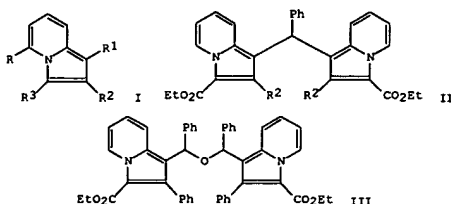
RN 141627-38-5 CAPLUS  
CN 7-Indolizinecarboxylic acid,  
2-butyl-3-[4-{3-(dibutylamino)propoxy}benzoyl]-  
ethyl ester (9CI) (CA INDEX NAME)



RN 141645-00-3 CAPLUS  
CN 7-Indolizinecarboxylic acid,  
2-butyl-3-[4-{3-(dibutylamino)propoxy}benzoyl]-  
ethyl ester (9CI) (CA INDEX NAME)



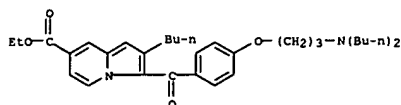
L15 ANSWER 29 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1991:206937 CAPLUS  
DOCUMENT NUMBER: 114:206937  
TITLE: Acid-catalyzed reactions of 1- and 3-( $\alpha$ -hydroxybenzyl)indolizines  
AUTHOR(S): Miki, Yasuyoshi; Hiroishi, Yuji; Hachiken, Hiroko; Takemura, Shoji  
CORPORATE SOURCE: Fac. Pharm. Sci., Kinki Univ., Higashi-Osaka, 577, Japan  
SOURCE: Journal of Heterocyclic Chemistry (1991), 28(1), 45-8  
CODEN: JHTCAD; ISSN: 0022-152X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 114:206937  
GI



AB Treatment of 1- and 3-( $\alpha$ -hydroxybenzyl)indolizines I [R = H, R1 = CH(OH)Ph, R2 = H, Ph, R3 = CO2Et; R = H, Me, R1 = CO2Me, R2 = H, Ph, R3 = CH(OH)Ph] with trifluoroacetic acid in dichloromethane gave phenylbis( $\alpha$ -indoliziny)methanes, bis[ $\alpha$ -(indoliziny)benzyl] ethers and indolizines, depending upon the presence or absence of the substituent at the 2- or 5-position and the reaction conditions used. Thus, treating I [R = H, R1 = CH(OH)Ph, R2 = Ph, R3 = CO2Et] with CF3CO2H gave phenylbis(indoliziny)methane II and the bis[ $\alpha$ -(indoliziny)benzyl] ether III. I [R = R2 = H, R1 = CH(OH)Ph, R3 = CO2Et] gave only II (R2 = H).  
IT 32896-98-3  
RL: RCT (Reactant); RACT (Reactant or reagent) (cyclocondensation of, with Me propiolate, benzoylmethylindolizinecarboxylate from)  
RN 32896-98-3 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

RN 141645-01-4 CAPLUS  
CN 7-Indolizinecarboxylic acid,  
2-butyl-3-[4-{3-(dibutylamino)propoxy}benzoyl]-  
ethyl ester, ethanediolate (1:1) (9CI) (CA INDEX NAME)

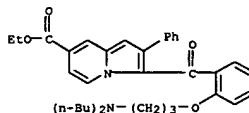
CM 1

CRN 141645-00-3  
CMF C33 H46 N2 O4

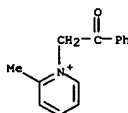
CM 2

CRN 144-62-7  
CMF C2 H2 O4

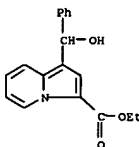
RN 141645-09-2 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-[2-{3-(dibutylamino)propoxy}benzoyl]-2-phenyl-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



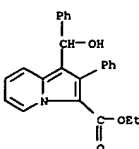
● HCl

● Br<sup>-</sup>

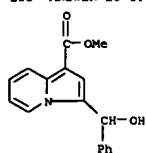
IT 133619-69-9P 133619-70-2P 133619-71-3P  
133619-72-4P 133619-73-5P 133619-76-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, in trifluoroacetic acid)  
RN 133619-69-9 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(hydroxyphenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



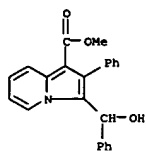
RN 133619-70-2 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(hydroxyphenylmethyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



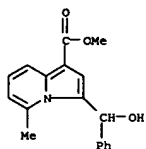
RN 133619-71-3 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-(hydroxyphenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)



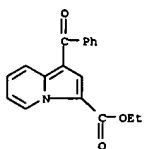
RN 133619-72-4 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-(hydroxyphenylmethyl)-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



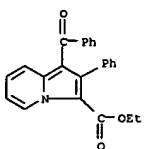
RN 133619-73-5 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-(hydroxyphenylmethyl)-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



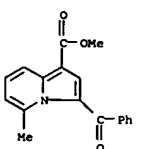
RN 133619-76-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1,1'-(oxybis(phenylmethylene))bis[2-phenyl-, diethyl ester (9CI) (CA INDEX NAME)



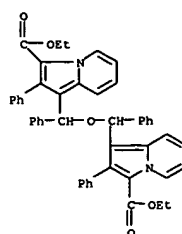
RN 133619-67-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



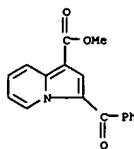
RN 133619-68-8 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-benzoyl-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



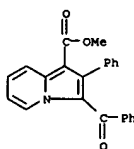
IT 133619-74-6P 133619-75-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 133619-74-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1,1'-(phenylmethylene)bis-, diethyl ester (9CI) (CA INDEX NAME)



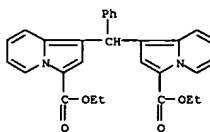
IT 17281-79-7P 56765-88-9P 128352-94-3P  
133619-67-7P 133619-68-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reduction of)  
RN 17281-79-7 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-benzoyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



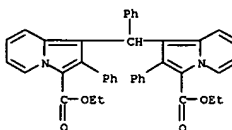
RN 56765-88-9 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



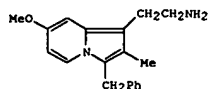
RN 128352-94-3 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 133619-75-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1,1'-(phenylmethylene)bis[2-phenyl-, diethyl ester (9CI) (CA INDEX NAME)

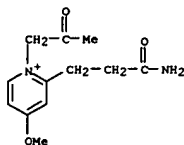


L15 ANSWER 30 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1991:143047 CAPLUS  
 DOCUMENT NUMBER: 114:143047  
 TITLE: Indolizine derivatives with biological activity. VI. 1-(2-Aminoethyl)-3-benzyl-7-methoxy-2-methylindolizine, benanserine structural analog  
 AUTHOR(S): Cingolani, G. M.; Claudi, F.; Massi, M.; Venturi, F.  
 CORPORATE SOURCE: Dip. Sci. Chim., Univ. Camerino, Camerino, 62032, Italy  
 SOURCE: European Journal of Medicinal Chemistry (1990), 25(8), 709-12  
 CODEN: EJMCA5; ISSN: 0223-5234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 114:143047  
 GI



I

AB The title compound (I) was prepared from 3-(4-methoxy-2-pyridyl)propionate.  
 In comparison with benanserine I showed greatly reduced antihistaminic activity and somewhat reduced antiserotonin activity whereas the anticholinergic activity remained unaffected.  
 IT 132868-07-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 132868-07-6 CAPLUS  
 CN Pyridinium, 2-(3-amino-3-oxopropyl)-4-methoxy-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

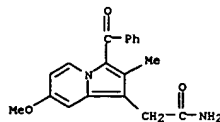
IT 132868-09-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

L15 ANSWER 31 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1989:594506 CAPLUS  
 DOCUMENT NUMBER: 111:194506  
 TITLE: Synthesis of cycl[3.2.2]azine and benzo[g]cycl[3.2.2]azine derivatives by use of the [2 + 8] cycloaddition reaction of indolizines and dimethyl acetylenedicarboxylate  
 AUTHOR(S): Tominaga, Yoshinori; Shiroshita, Yoshihide; Kurokawa, Tomohiko; Gotou, Hiromi; Matsuda, Yoshiro; Hosomi, Akira  
 CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan  
 SOURCE: Journal of Heterocyclic Chemistry (1989), 26(2), 477-87  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 111:194506  
 GI

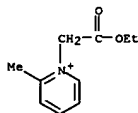
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The reaction of ethoxycarbonylmethylpyridinium bromides I (R = H, Me, Et, CONH2, CONEt2; R1 = H, Et, Ac, PhCH2; R2 = H, Me) with (MeS)2C:CHNO2, in the presence of Et3N in EtOH gave the desired Et 2-methylthioindolizine-3-carboxylates II (R3 = H, Me, COEt; R4 = H, Et, PhCH2; R5 = H, Me, Et, CONH2; R6 = H) in good yields along with II (R3 = H, CONH2; R4 = H, Ac; R5 = H, R6 = NO2). Deesterification of II (R6 = H) with NaOH in MeOH followed by treatment with polyphosphoric acid gave the 2-methylthioindolizines III (R3 = H, Me; R4 = H, PhCH2; R5 = H, Me, Et) in good yields. The desulfurization of III with Raney-nickel in EtOH gave indolizine, 8-methylindolizine, 6,8-dimethylindolizine. Similarly, pyrrolo[2,1-a]isoquinoline (IV) was also synthesized. These indolizine and pyrrolo[2,1-a]isoquinoline derivs. were allowed to react with MeO2CC.tpbond.CO2Me to give the corresponding cycl[3.2.2]azines, e.g., V, and benzo[g]cycl[3.2.2]azine derivs., e.g., VI.  
 IT 55814-02-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclocondensation of, with bis(methylthio)nitroethylene)  
 RN 55814-02-3 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 30 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 (Reactant or reagent)  
 (prepn. and redn. of)  
 RN 132868-09-8 CAPLUS  
 CN 1-Indolizineacetamide, 3-benzoyl-7-methoxy-2-methyl- (9CI) (CA INDEX NAME)

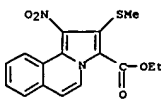


L15 ANSWER 31 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

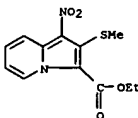


● Br<sup>-</sup>

IT 56823-02-0P 123471-46-5P 123471-54-5P  
 123471-56-7P 123471-58-9P 123471-59-0P  
 123471-60-3P 123471-61-4P 123471-62-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 56823-02-0 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)

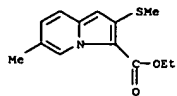


RN 123471-46-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)

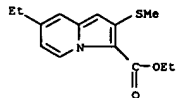


RN 123471-54-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 6-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

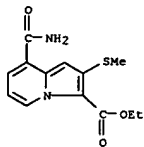




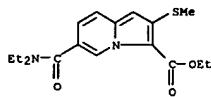
RN 123471-56-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 7-ethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 123471-58-9 CAPLUS  
CN 3-Indolizinecarboxylic acid, 8-(aminocarbonyl)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

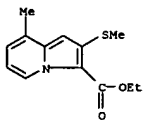


RN 123471-59-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6-[(diethylamino)carbonyl]-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

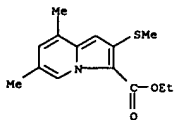


RN 123471-60-3 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6-(aminocarbonyl)-2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)

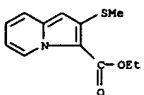
RN 64908-43-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



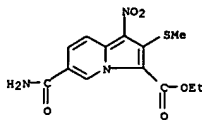
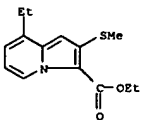
RN 64995-28-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6,8-dimethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



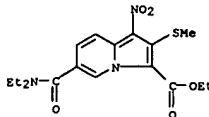
RN 123471-45-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



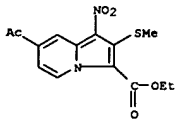
RN 123471-55-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 8-ethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 123471-61-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6-[(diethylamino)carbonyl]-2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)

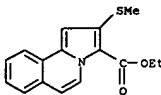


RN 123471-62-5 CAPLUS  
CN 3-Indolizinecarboxylic acid, 7-acetyl-2-(methylthio)-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)

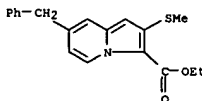


IT 56823-03-1P 64908-43-6P 64995-28-4P  
123471-45-4P 123471-55-6P 123471-57-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, hydrolysis and decarboxylation of)

RN 56823-03-1 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 123471-57-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(methylthio)-7-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1989:457575 CAPLUS  
 DOCUMENT NUMBER: 111:57575  
 TITLE: Preparation of new nitrogen-bridged heterocycles.  
 19.

AUTHOR(S):

CORPORATE SOURCE:

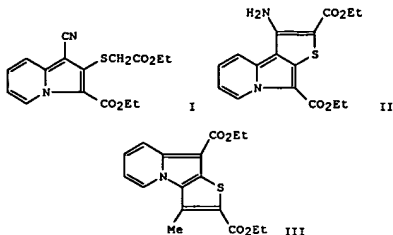
DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

GI

Smooth syntheses of thieno[3,2-a]- and thieno[2,3-b]indolizine derivatives  
 Kakehi, Akikazu; Ito, Suketaka; Fujii, Tuneso;  
 Morimoto, Yuichiro; Matsumoto, Shinichi; Shiohara, Morio  
 Fac. Eng., Shinshu Univ., Nagano, 380, India  
 Bulletin of the Chemical Society of Japan (1989),  
 62(1), 119-27  
 CODEN: BCSJAS; ISSN: 0009-2673  
 Journal  
 English  
 CASREACT 111:57575



AB The reactions of 2-(ethoxycarbonylmethylthio)indolizines having an acyl and/or a cyano group at the 1- and 3-positions, e.g. I, under several alkaline conditions were examined, and title compds., thieno[3,2-a]-, e.g. II, and thieno[2,3-b]indolizine, e.g. III, derivs. were obtained in fairly good yields. The cyclization modes observed in these transformation reactions were in accord with those expected by the MO calcs. using some model compds. and by the stereochem. consideration of starting indolizines.

The

alkylations of 3-hydroxythieno[3,2-a]- and 3-hydroxythieno[2,3-b]indolizines were also investigated and the corresponding O- and C-alkylated heterocycles were formed in good yields.

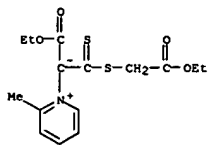
IT 121821-54-3 121821-57-6

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (alkylation-cyclization of, indolizine derivs. from)

RN 121821-54-3 CAPLUS

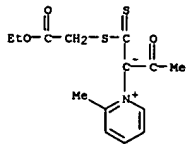
CN Pyridinium, 2-methyl-,

1-(ethoxycarbonyl)-2-[(2-ethoxy-2-oxoethyl)thio]-2-thioxoethylide (9CI) (CA INDEX NAME)



RN 121821-57-6 CAPLUS

CN Pyridinium, 2-methyl-, 1-[(2-ethoxy-2-oxoethyl)thio]thioxomethyl]-2-oxopropylide (9CI) (CA INDEX NAME)



IT 113444-77-2P 113444-78-3P 113444-79-4P

113444-80-7P 113444-81-8P 113444-82-9P

121821-39-4P 121821-40-7P 121821-41-8P

121821-42-9P 121821-43-0P 121821-44-1P

121821-45-2P 121821-46-3P 121821-47-4P

121821-48-5P 121821-49-6P 121821-50-9P

121821-51-0P 121821-52-1P

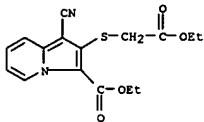
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and intramol. cyclization of, thienoindolizine derivs.

from)

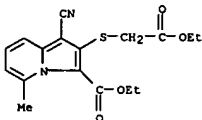
RN 113444-77-2 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-, ethyl ester (9CI) (CA INDEX NAME)



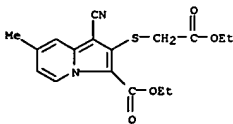
RN 113444-78-3 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



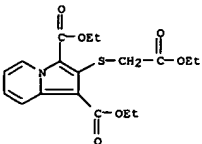
RN 113444-79-4 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



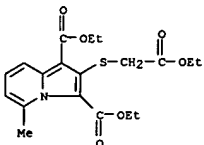
RN 113444-80-7 CAPLUS

CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-, diethyl ester (9CI) (CA INDEX NAME)



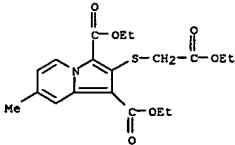
RN 113444-81-8 CAPLUS

CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



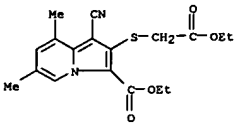
RN 113444-82-9 CAPLUS

CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



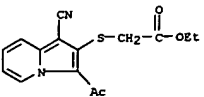
RN 121821-39-4 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-6,8-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

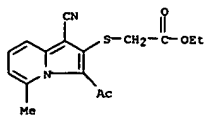


RN 121821-40-7 CAPLUS

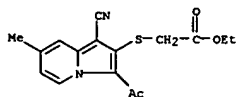
CN Acetic acid, [(3-acetyl-1-cyano-2-indolizinyloxy)thio]-, ethyl ester (9CI) (CA INDEX NAME)



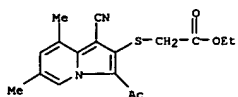
L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 121821-41-8 CAPLUS  
 CN Acetic acid, [(3-acetyl-1-cyano-5-methyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



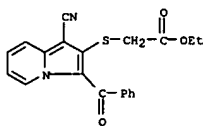
RN 121821-42-9 CAPLUS  
 CN Acetic acid, [(3-acetyl-1-cyano-7-methyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



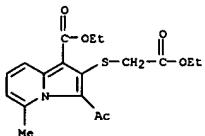
RN 121821-43-0 CAPLUS  
 CN Acetic acid, [(3-acetyl-1-cyano-6,8-dimethyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



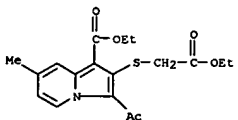
RN 121821-44-1 CAPLUS  
 CN Acetic acid, [(3-benzoyl-1-cyano-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



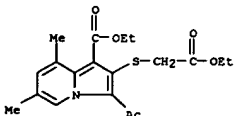
L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 121821-49-6 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



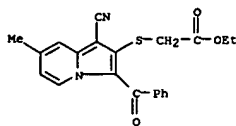
RN 121821-50-9 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-6,8-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



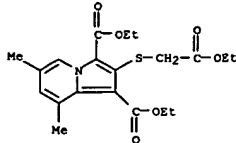
RN 121821-51-0 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-[(2-ethoxy-2-oxoethyl)thio]-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

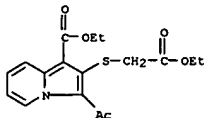
RN 121821-45-2 CAPLUS  
 CN Acetic acid, [(3-benzoyl-1-cyano-7-methyl-2-indoliziny)thio]-, ethyl ester (9CI) (CA INDEX NAME)



RN 121821-46-3 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-6,8-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)



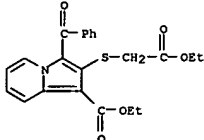
RN 121821-47-4 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-, ethyl ester (9CI) (CA INDEX NAME)



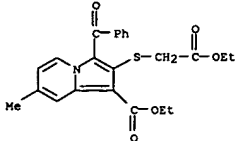
RN 121821-48-5 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-acetyl-2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

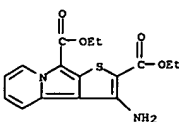


RN 121821-52-1 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)

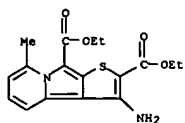


IT 113444-83-0P 113444-84-1P 113444-85-2P  
 121821-59-8P 121821-60-1P 121821-61-2P  
 121821-62-3P 121821-64-5P 121821-65-6P  
 121821-66-7P 121821-67-8P 121821-72-5P  
 121821-84-9P 121821-85-0P 121821-86-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

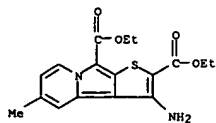
RN 113444-83-0 CAPLUS  
 CN Thieno[3,2-*a*]indolizine-2,9-dicarboxylic acid, 3-amino-, diethyl ester (9CI) (CA INDEX NAME)



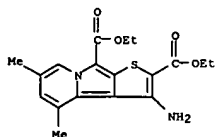
RN 113444-84-1 CAPLUS  
 CN Thieno[3,2-*a*]indolizine-2,9-dicarboxylic acid, 3-amino-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



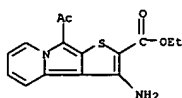
RN 113444-85-2 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 121821-59-8 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)

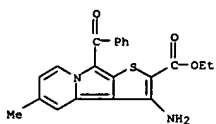


RN 121821-60-1 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-, ethyl ester (9CI) (CA INDEX NAME)

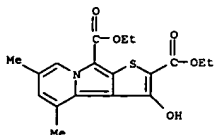


RN 121821-61-2 CAPLUS

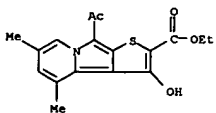
RN 121821-66-7 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-9-benzoyl-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 121821-67-8 CAPLUS  
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-hydroxy-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)

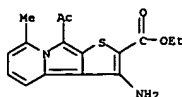


RN 121821-72-5 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-hydroxy-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

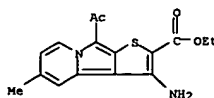


RN 121821-84-9 CAPLUS  
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-methoxy-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)

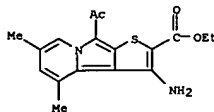
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



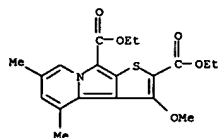
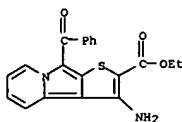
RN 121821-62-3 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



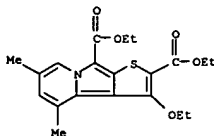
RN 121821-64-5 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 9-acetyl-3-amino-4,6-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



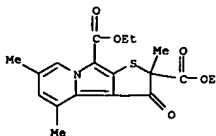
RN 121821-65-6 CAPLUS  
CN Thieno[3,2-a]indolizine-2-carboxylic acid, 3-amino-9-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 121821-85-0 CAPLUS  
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-ethoxy-4,6-dimethyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 121821-86-1 CAPLUS  
CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 2,3-dihydro-2,4,6-trimethyl-3-oxo-, diethyl ester (9CI) (CA INDEX NAME)

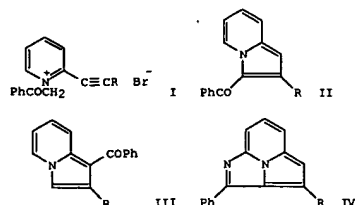


ACCESSION NUMBER:  
DOCUMENT NUMBER:  
TITLE:

1989:231395 CAPLUS  
110:231395  
Thermal rearrangements of cyclic amine ylides. VIII.  
Intramolecular cyclization of 2-ethynylpyridine  
N-ylides into indolizines and cycl[3.2.2]azines  
Sashida, Haruki; Kato, Masanobu; Tauchiya, Takashi  
Sch. Pharm., Hokuriku Univ., Kanazawa, 920-11, Japan  
Chemical & Pharmaceutical Bulletin (1988), 36(10),  
3826-32  
CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE:  
LANGUAGE:  
OTHER SOURCE(S):  
GI

Journal  
English  
CASREACT 110:231395



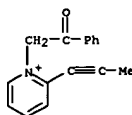
AB Treatment of 6-unsubstituted 2-ethynyl-1-phenacylpyridinium bromides I (R = Me, Bu, Ph) with 1,5-diazabicyclo[5.4.0]undec-5-ene in refluxing benzene

resulted in cyclization to give the 3-benzoylindolizines II via the N-ylide intermediates, whereas heating the salts I in refluxing acetic acid afforded the 1-benzoylindolizines III. Upon similar treatment with the base, 2-ethynyl-6-methylpyridinium salts gave the 3-benzoyl-5-methylindolizines the reaction of 6-amino-2-ethynylpyridines with phenacyl

bromide produced 5-ethynyl-1-azaindolizines, which were converted into 1-azacycl[3.2.2]azines IV (R = Me, Bu, Ph).

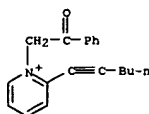
IT 96206-84-7P 96206-85-8P 96206-86-9P  
96206-87-0P 96206-88-1P 96206-89-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and intramol. cyclization of)  
RN 96206-84-7 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



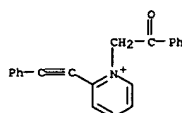
● Br<sup>-</sup>

RN 96206-85-8 CAPLUS  
CN Pyridinium, 2-(1-hexynyl)-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



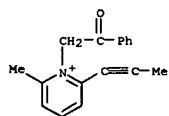
● Br<sup>-</sup>

RN 96206-86-9 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)



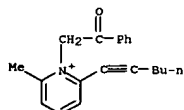
● Br<sup>-</sup>

RN 96206-87-0 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



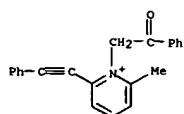
● Br<sup>-</sup>

RN 96206-88-1 CAPLUS  
CN Pyridinium, 2-(1-hexynyl)-6-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 96206-89-2 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)

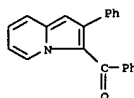


● Br<sup>-</sup>

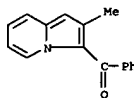
IT 14759-45-6P 36944-82-8P 96206-93-8P  
96206-96-1P 96206-97-2P 96206-98-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

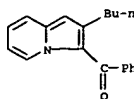
(prepn. of)  
RN 14759-45-6 CAPLUS  
CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



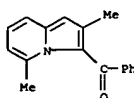
RN 36944-82-8 CAPLUS  
CN Methanone, (2-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



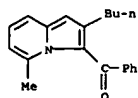
RN 96206-93-8 CAPLUS  
CN Methanone, (2-butyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



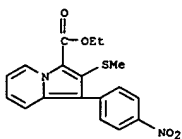
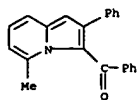
RN 96206-96-1 CAPLUS  
CN Methanone, (2,5-dimethyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



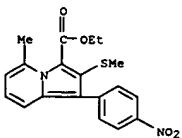
RN 96206-97-2 CAPLUS  
CN Methanone, (2-butyl-5-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



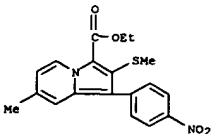
RN 96206-98-3 CAPLUS  
CN Methanone, (5-methyl-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 119092-84-1 CAPLUS  
CN 3-Indolizinecarboxylic acid, 5-methyl-2-(methylthio)-1-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



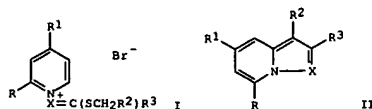
RN 119092-85-2 CAPLUS  
CN 3-Indolizinecarboxylic acid, 7-methyl-2-(methylthio)-1-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



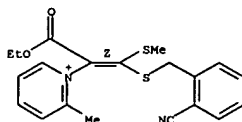
IT 119092-17-0P 119092-22-7P 119092-32-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, by base, indolizine derivative from)  
RN 119092-17-0 CAPLUS  
CN Pyridinium, 1-[2-[(4-cyanophenyl)methyl]thio]-1-(ethoxycarbonyl)-2-(methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1989:95084 CAPLUS  
DOCUMENT NUMBER: 110:95084  
TITLE: Preparation of new nitrogen-bridged heterocycles. 18. Facile formations of 3-arylpyrazolo[1,5-a]pyridines and 1-arylidolizines  
AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka; Kinoshita, Naosumi; Abaka, Yukio  
CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan  
SOURCE: Bulletin of the Chemical Society of Japan (1988), 61(6), 2055-61  
CODEN: BCSJAS; ISSN: 0009-2673  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 110:95084  
GI

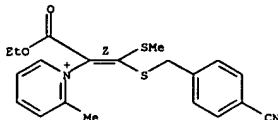


AB The base treatment of [(benzylthio)methyleneamino]pyridinium I (X = N; R, R1 = H, Me; R2 = Ph, substituted Ph, R3 = SMe, Ph, OEt, NET2) and [(benzylthio)vinyl]pyridinium bromides I (X = CR4; R, R1 = H, Me; R2 = Ph, substituted Ph, R3 = SMe, R4 = CO2Et, cyano, COPh), possessing an electron-withdrawing substituent such as a nitro or cyano group in the presence or absence of a dehydrogenating agent afforded 3-arylpyrazolo[1,5-a]pyridines II (X = N) and 1-arylidolizines II (X = CR4) resp. in moderate to good yields, while the reactions of the parent pyridinium salts and those having an electron-releasing group did not produce any significant products. The mode of the reaction, a ring contraction-desulfurization, is the same as that observed in related monocyclic species.  
IT 119092-83-0P 119092-84-1P 119092-85-2P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and catalytic hydrogenation of, amino derivative from)  
RN 119092-83-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(methylthio)-1-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



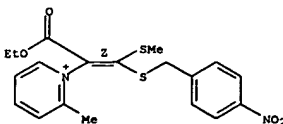
● Br<sup>-</sup>  
RN 119092-22-7 CAPLUS  
CN Pyridinium, 1-[2-[(4-cyanophenyl)methyl]thio]-1-(ethoxycarbonyl)-2-(methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● Br<sup>-</sup>  
RN 119092-32-9 CAPLUS  
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-(methylthio)-2-[(4-nitrophenyl)methyl]thio]ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

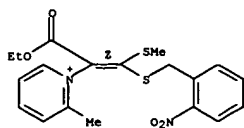
Double bond geometry as shown.



● Br<sup>-</sup>

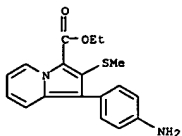
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 IT 119092-61-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and cyclization of, by base, indolizine derivs. from)  
 RN 119092-61-4 CAPLUS  
 CN Pyridinium, 1-[(1-ethoxycarbonyl)-2-(methylthio)-2-[(2-nitrophenyl)methyl]thio]ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA  
 INDEX NAME)

Double bond geometry as shown.



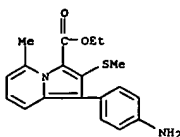
● Br<sup>-</sup>

IT 119092-51-2P 119092-52-3P 119092-53-4P  
 119092-63-6P 119092-64-7P 119092-65-8P  
 119092-67-0P 119092-68-1P 119092-69-2P  
 119092-70-5P 119092-72-7P 119092-78-3P  
 119092-79-4P 119092-80-7P 119092-82-9P  
 119092-87-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 119092-51-2 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(4-aminophenyl)-2-(methylthio)-, ethyl  
 ester (9CI) (CA INDEX NAME)

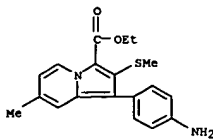


RN 119092-52-3 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(4-aminophenyl)-5-methyl-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)

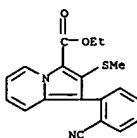
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 119092-53-4 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(4-aminophenyl)-7-methyl-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)

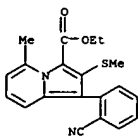


RN 119092-63-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyanophenyl)-2-(methylthio)-, ethyl  
 ester (9CI) (CA INDEX NAME)

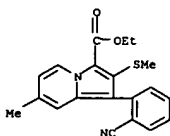


RN 119092-64-7 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyanophenyl)-5-methyl-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)

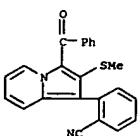
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 119092-65-8 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyanophenyl)-7-methyl-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)

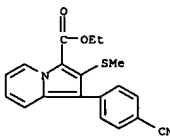


RN 119092-67-0 CAPLUS  
 CN Benzonitrile, 2-[3-benzoyl-2-(methylthio)-1-indoliziny]- (9CI) (CA  
 INDEX NAME)

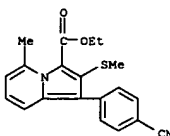


RN 119092-68-1 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(4-cyanophenyl)-2-(methylthio)-, ethyl  
 ester (9CI) (CA INDEX NAME)

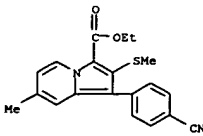
L15 ANSWER 34 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



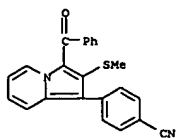
RN 119092-69-2 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(4-cyanophenyl)-5-methyl-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)



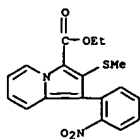
RN 119092-70-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(4-cyanophenyl)-7-methyl-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)



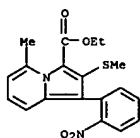
RN 119092-72-7 CAPLUS  
 CN Benzonitrile, 4-[3-benzoyl-2-(methylthio)-1-indoliziny]- (9CI) (CA  
 INDEX NAME)



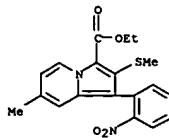
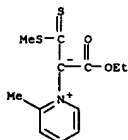
RN 119092-78-3 CAPLUS  
CN 3-indolizinecarboxylic acid, 2-(methylthio)-1-(2-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



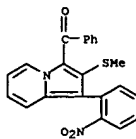
RN 119092-79-4 CAPLUS  
CN 3-indolizinecarboxylic acid, 5-methyl-2-(methylthio)-1-(2-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



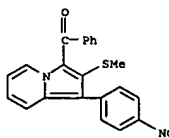
RN 119092-80-7 CAPLUS  
CN 3-indolizinecarboxylic acid, 7-methyl-2-(methylthio)-1-(2-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 119092-82-9 CAPLUS  
CN Methanone, [2-(methylthio)-1-(2-nitrophenyl)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)

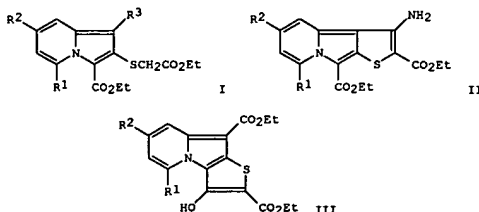


RN 119092-87-4 CAPLUS  
CN Methanone, [2-(methylthio)-1-(4-nitrophenyl)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



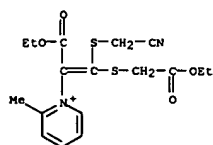
IT 74360-58-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(S-benzylation of)  
RN 74360-58-0 CAPLUS  
CN Pyridinium, 2-methyl-, 1-(ethoxycarbonyl)-2-(methylthio)-2-thioxoethylide (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1988:150337 CAPLUS  
DOCUMENT NUMBER: 108:150337  
TITLE: Preparation of new nitrogen-bridged heterocycles.  
17.  
Regiospecific formations of thieno[3,2-a]indolizine and thieno[2,3-b]indolizine derivatives  
Kakehi, Akikazu; Ito, Suketaka; Matsumoto, Shinichi; Morimoto, Yuichiro  
CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan  
SOURCE: Chemistry Letters (1987), (10), 2043-6  
CODEN: CMLTAG; ISSN: 0366-7022  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 108:150337  
GI

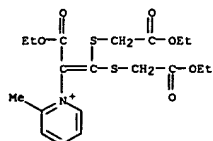


AB Indolizines I (R1, R2 = H, Me; R3 = cyano) were refluxed with DBU in EtOH to give thieno[3,2-a]indolizines II. Thieno[2,3-b]indolizines III (R1, R2 = H, Me) were obtained by treatment of the resp. I (R3 = CO2Et) with Me3COH/DMF  
113444-72-7  
IT  
RL: PROC (Process)  
(conversion of, to indolizinecarbonitrile derivative)  
RN 113444-72-7 CAPLUS  
CN Pyridinium, 1-[2-[(cyanomethyl)thio]-1-(ethoxycarbonyl)-2-[(2-ethoxy-2-oxoethyl)thio]ethenyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

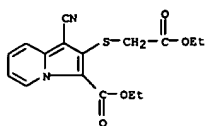


● Br<sup>-</sup>

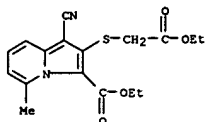
IT 113444-75-0  
 RL: PROC (Process)  
 (conversion of, to indolizinedicarboxylate ester)  
 RN 113444-75-0 CAPLUS  
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis[(2-ethoxy-2-oxoethyl)thio]ethenyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

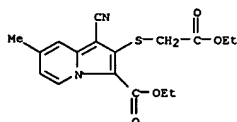
IT 113444-77-2P 113444-78-3P 113444-79-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and cycloaddn. reaction of, thienoindolizine derivative from)  
 RN 113444-77-2 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-, ethyl ester (9CI) (CA INDEX NAME)



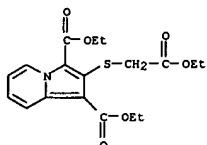
RN 113444-78-3 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



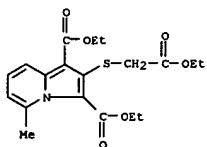
RN 113444-79-4 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



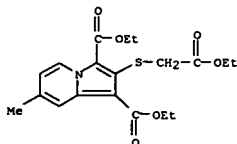
IT 113444-80-7P 113444-81-8P 113444-82-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclocondensation reaction of, thienoindolizine derivative from)  
 RN 113444-80-7 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-, diethyl ester (9CI) (CA INDEX NAME)



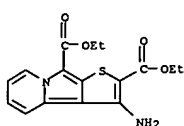
RN 113444-81-8 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



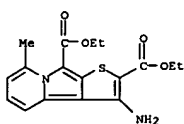
RN 113444-82-9 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-[(2-ethoxy-2-oxoethyl)thio]-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



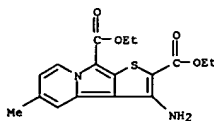
IT 113444-83-0P 113444-84-1P 113444-85-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 113444-83-0 CAPLUS  
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-, diethyl ester (9CI) (CA INDEX NAME)



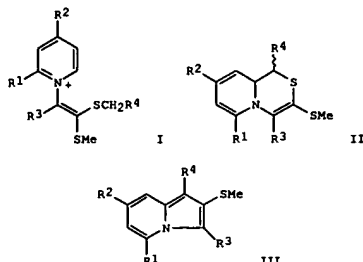
RN 113444-84-1 CAPLUS  
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)



RN 113444-85-2 CAPLUS  
 CN Thieno[3,2-a]indolizine-2,9-dicarboxylic acid, 3-amino-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)

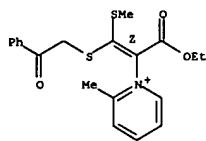


L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1988:75321 CAPLUS  
 DOCUMENT NUMBER: 108:75321  
 TITLE: Preparation of new nitrogen-bridged heterocycles.  
 15.  
 AUTHOR(S): Synthesis and reaction of 1,9a-dihydropyrido[2,1-c][1,4]thiazines  
 Kakehi, Akikazu; Ito, Suketaka; Yonezu, Shingo;  
 Maruta, Katsunori; Yuito, Kazuhiro; Shiohara, Morio;  
 Adachi, Kyoko  
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan  
 SOURCE: Bulletin of the Chemical Society of Japan (1987),  
 60(5), 1867-79  
 CODEN: BCSJAB; ISSN: 0009-2673  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 108:75321  
 GI



AB Alkaline treatment of 1-[2-(substituted methylthio)vinyl]pyridinium  
 bromides I  
 (R1 = H, Me, R2 = H, Me, R3 = cyano, CO2Et, COPh, R4 = cyano, CO2Et,  
 COPh,  
 COC6H4R5-4; R5 = Cl, Br, Me, Ph) readily obtainable from the S-alkylation  
 of pyridinium 1-(thiocarbonyl)methylides with various alkyl bromides such  
 as bromoacetonitrile, Et bromoacetate, and some phenac bromides, gave  
 smoothly 1,9a-dihydropyrido[2,1-c][1,4]thiazines II as isomeric mixts.  
 II  
 are very unstable and decomposed rapidly at ordinary temperature, but by  
 treating  
 them with a dehydrogenating agent such as lead tetraacetate or  
 2,3-dichloro-5,6-dicyano-p-benzoquinone (DDQ) at 0°, the  
 desulfurized and the rearranged aromatic indolizines III (R1 = H, R2 =  
 H, Me,  
 R3 = cyano, CO2Et, COPh; R4 = cyano, CO2Et, SBz, SCOC6H4R5; R5 = Cl, Br,  
 Me, Ph) were formed in moderate to good yields.  
 IT 112585-98-5P 112586-00-2P 112586-02-4P  
 112586-04-6P

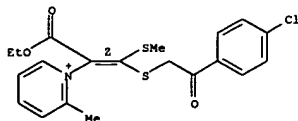
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



• Br<sup>-</sup>

RN 112586-04-6 CAPLUS  
 CN Pyridinium,  
 1-[2-[(2-(4-chlorophenyl)-2-oxoethyl)thio]-1-(ethoxycarbonyl)-  
 2-(methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

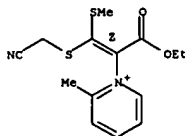


• Br<sup>-</sup>

IT 53687-83-5P 53754-14-6P 96492-84-1P  
 112586-21-7P 112586-22-8P 112586-23-9P  
 112586-24-0P 112586-25-1P 112586-36-4P  
 112586-38-6P 112601-33-9P 112601-35-1P  
 112601-37-3P 112601-39-5P 112601-40-8P  
 112601-47-5P 112601-48-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 53687-83-5 CAPLUS  
 CN 1-indolizinecarbonitrile, 3-benzoyl-2-(methylthio)- (9CI) (CA INDEX NAME)

L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and cyclization of, dihydropyridothiazines from)  
 RN 112585-98-5 CAPLUS  
 CN Pyridinium, 1-[2-[(cyanomethyl)thio]-1-(ethoxycarbonyl)-2-  
 (methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

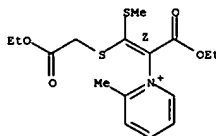
Double bond geometry as shown.



• Br<sup>-</sup>

RN 112586-00-2 CAPLUS  
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-[(2-ethoxy-2-oxoethyl)thio]-2-  
 (methylthio)ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



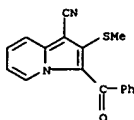
• Br<sup>-</sup>

RN 112586-02-4 CAPLUS  
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2-(methylthio)-2-[(2-oxo-2-  
 phenylethyl)thio]ethenyl]-2-methyl-, bromide, (Z)- (9CI) (CA INDEX NAME)

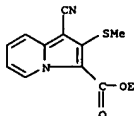
Double bond geometry as shown.



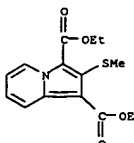
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



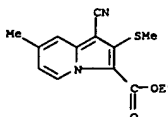
RN 53754-14-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-cyano-2-(methylthio)-, ethyl ester (9CI)  
 (CA INDEX NAME)



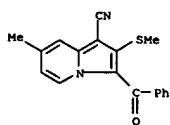
RN 96492-84-1 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2-(methylthio)-, diethyl ester (9CI)  
 (CA INDEX NAME)



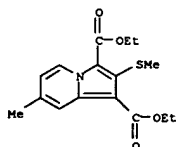
RN 112586-21-7 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-cyano-7-methyl-2-(methylthio)-, ethyl  
 ester (9CI) (CA INDEX NAME)



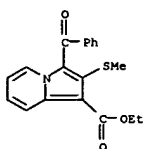
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 112586-22-8 CAPLUS  
 CN 1-Indolizinecarbonitrile, 3-benzoyl-7-methyl-2-(methylthio)- (9CI) (CA INDEX NAME)



RN 112586-23-9 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 7-methyl-2-(methylthio)-, diethyl ester (9CI) (CA INDEX NAME)

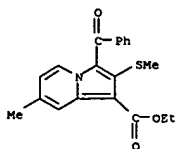


RN 112586-24-0 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

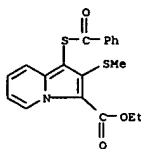


RN 112586-25-1 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 3-benzoyl-7-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

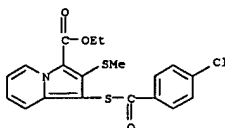
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 112586-36-4 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(benzoylthio)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

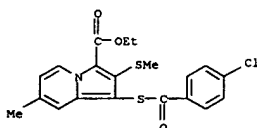


RN 112586-38-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-[(4-chlorobenzoyl)thio]-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

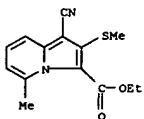


RN 112601-33-9 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-[(4-chlorobenzoyl)thio]-7-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

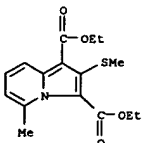
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 112601-35-1 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-cyano-5-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

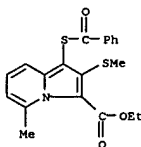


RN 112601-37-3 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 5-methyl-2-(methylthio)-, diethyl ester (9CI) (CA INDEX NAME)

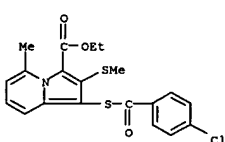


RN 112601-39-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(benzoylthio)-5-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

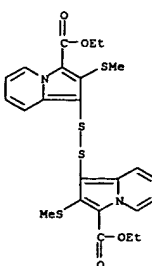
L15 ANSWER 36 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



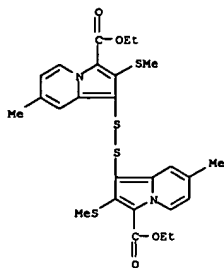
RN 112601-40-8 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-[(4-chlorobenzoyl)thio]-5-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



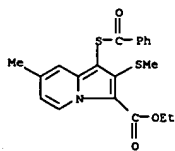
RN 112601-47-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1,1'-dithiobis[2-(methylthio)-], diethyl ester (9CI) (CA INDEX NAME)



RN 112601-48-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1,1'-dithiobis[7-methyl-2-(methylthio)-], diethyl ester (9CI) (CA INDEX NAME)

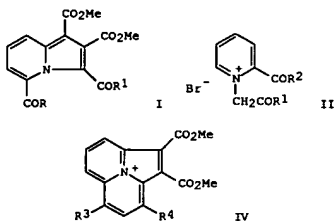


IT 112586-37-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with piperidine, disulfide from)  
 RN 112586-37-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(benzoylthio)-7-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

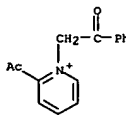
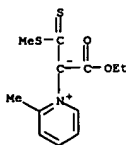


IT 74360-58-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (S-alkylation of)  
 RN 74360-58-0 CAPLUS  
 CN Pyridinium, 2-methyl-, 1-(ethoxycarbonyl)-2-(methylthio)-2-thioxoethylide (9CI) (CA INDEX NAME)

L15 ANSWER 37 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1987:213744 CAPLUS  
 DOCUMENT NUMBER: 106:213744  
 TITLE: A novel synthesis of pyrrolo[2,1,5-de]quinolizines (cycl[3.3.2]azinones)  
 AUTHOR(S): Miki, Yasuyoshi; Kinoshita, Hisashi; Yoshimaru, Toshihiko; Takemura, Shoji; Ikeda, Masazumi  
 CORPORATE SOURCE: Fac. Pharm. Sci., Kinki Univ., Higashi-Osaka, 577, Japan  
 SOURCE: Heterocycles (1987), 26(1), 199-204  
 CODEN: HTCYAM; ISSN: 0385-5414  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 106:213744  
 GI

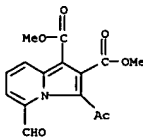


AB 3,5-Diacylindolizines I (R = H, Me, Ph; R1 = Me, Ph) were prepared by [3 + 2] dipolar cycloaddn. of pyridinium salts II (R2 = Ph, Me, 1,3-dioxolanyl) and MeO2C-CO2Me. I were then cyclized with Al2O3 or K2CO3 to give the title compds. III in 38-64% overall yields. The NMR of III with CF3CO2D showed evidence for cyclazinium ions IV (R3 = OH, H, Ph; R4 = Ph, OH).  
 IT 1026-29-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (deprotonation and cycloaddn. reaction of, with di-Me acetylenedicarboxylate)  
 RN 1026-29-5 CAPLUS  
 CN Pyridinium, 2-acetyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

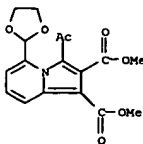


● Br<sup>-</sup>

IT 108325-85-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, with alumina)  
 RN 108325-85-5 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-formyl-, dimethyl ester (9CI) (CA INDEX NAME)

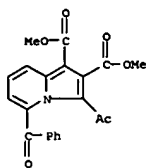


IT 108325-75-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and deprotection of, with hydrochloric acid)  
 RN 108325-75-3 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-(1,3-dioxolan-2-yl)-, dimethyl ester (9CI) (CA INDEX NAME)

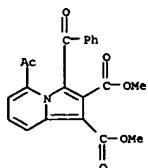


IT 108325-74-2P 108325-76-4P

L15 ANSWER 37 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and intramol. cyclization of, with alumina and with potassium  
 carbonate)  
 RN 108325-74-2 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 3-acetyl-5-benzoyl-, dimethyl ester  
 (9CI)  
 (CA INDEX NAME)

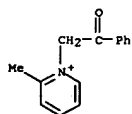


RN 108325-76-4 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 5-acetyl-3-benzoyl-, dimethyl ester  
 (9CI)  
 (CA INDEX NAME)



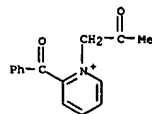
IT 108325-73-1, N-Acetonil-2-benzoylpyridinium bromide  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation deprotonation, and cycloaddn. reaction of, with di-Me  
 acetylenedicarboxylate)  
 RN 108325-73-1 CAPLUS  
 CN Pyridinium, 2-benzoyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 38 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1986:590862 CAPLUS  
 DOCUMENT NUMBER: 105:190862  
 TITLE: Stereochemical study on 1,3-dipolar cycloaddition  
 reactions of heteroaromatic N-ylides with  
 symmetrically substituted cis and trans olefins  
 Tsuge, Ochoiko; Kanemasa, Shuji; Takenaka, Shigeori  
 Interdiscip. Grad. Sch. Eng. Sci., Kyushu Univ.,  
 Kasuga, 816, Japan  
 SOURCE: Bulletin of the Chemical Society of Japan (1985),  
 58(11), 3137-57  
 CODEN: BCSJAB; ISSN: 0009-2673  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 105:190862  
 AB Stereochem. of the cycloaddns. of twenty-four heteroarom. N-ylides with  
 sym. substituted cis and trans olefins has been investigated. Cyclic and  
 acyclic cis olefins cycloadd to the anti form of the ylides in a highly  
 endo-selective manner giving almost quant. yields of stereospecific endo  
 3+2 cycloadducts. N-Ylides stabilized with a substituent of the carbonyl  
 type react with trans olefins to form mostly 2 stereoisomeric 3+2  
 cycloadducts to the anti form of the ylides. In most cases, they undergo  
 stereospecific interconversion through a retro cycloaddn. process, the  
 isomer ratios and the ease of transformation depending upon the nature  
 and size of substituents on the 5-membered ring which has been built up in  
 the cycloaddn. step. On the other hand, N-ylides stabilized with a  
 substituent of noncarbonyl type react with trans olefins to give  
 stereospecific and stereoselective 3+2 cycloadducts as single isomers  
 which are assigned as the cycloadducts to the syn form of the ylides.  
 IT 32896-98-3 51386-37-9  
 RL: PROC (Process)  
 (cycloaddn. of, with olefins, stereochem. of)  
 RN 32896-98-3 CAPLUS  
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX  
 NAME)



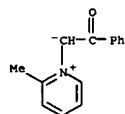
● Br<sup>-</sup>  
 RN 51386-37-9 CAPLUS  
 CN Pyridinium, 2-methyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

L15 ANSWER 37 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



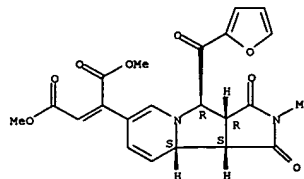
● Br<sup>-</sup>

L15 ANSWER 38 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



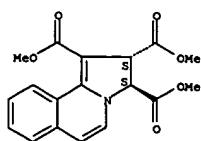
IT 104953-21-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and oxidation of)  
 RN 104953-21-1 CAPLUS  
 CN 2-Butenedioic acid, 2-[4-(2-furanylcabonyl)-2,3,3a,4,9a,9b-hexahydro-2-  
 methyl-1,3-dioxo-1H-pyrrolo[3,4-a]indolizin-7-yl]-, dimethyl ester,  
 (3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
 Double bond geometry unknown.



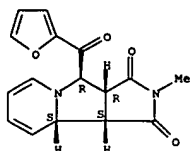
IT 37129-40-1P 88089-36-5P 88089-37-6P  
 88089-38-7P 88089-39-8P 88089-40-1P  
 88121-62-4P 88121-63-5P 90625-67-5P  
 90625-68-6P 90625-69-7P 90625-70-0P  
 90625-71-1P 90625-72-2P 90625-73-3P  
 90625-74-4P 90650-46-7P 90650-47-8P  
 97204-08-5P 97204-09-6P 97204-10-9P  
 97204-11-0P 97204-12-1P 97275-41-7P  
 97275-42-8P 97275-43-9P 97275-44-0P  
 104932-92-5P 104953-17-5P 104953-20-0P  
 104953-22-2P 104953-25-5P 104953-27-7P  
 104953-28-8P 104953-29-9P 105017-14-9P  
 105017-15-0P 105017-17-2P 105017-18-3P  
 105017-19-4P 105017-20-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 37129-40-1 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 2,3-dihydro-,  
 trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



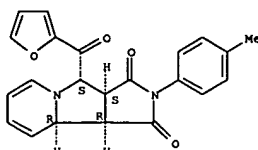
RN 88089-36-5 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-(2-furanylcarbonyl)-3a,4,9a,9b-tetrahydro-2-methyl-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



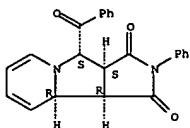
RN 88089-37-6 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-(2-furanylcarbonyl)-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



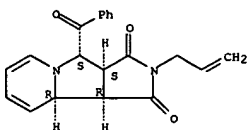
RN 88089-38-7 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-methyl-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



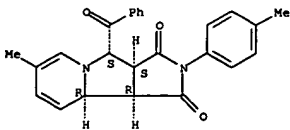
RN 88121-63-5 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-(2-propenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



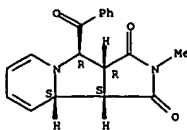
RN 90625-67-5 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-7-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



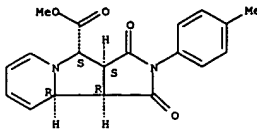
RN 90625-68-6 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-9-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



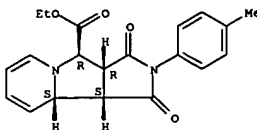
RN 88089-39-8 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-4-carboxylic acid, 2,3,3a,4,9a,9b-hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



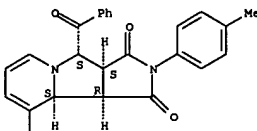
RN 88089-40-1 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-4-carboxylic acid, 2,3,3a,4,9a,9b-hexahydro-2-(4-methylphenyl)-1,3-dioxo-, ethyl ester, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



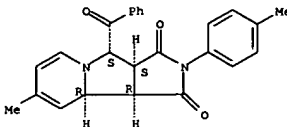
RN 88121-62-4 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-phenyl-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



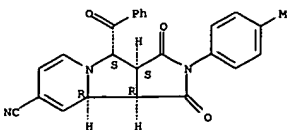
RN 90625-69-7 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-8-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



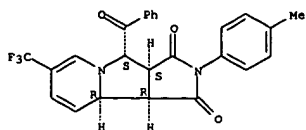
RN 90625-70-0 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-8-carbonitrile, 4-benzoyl-2,3,3a,4,9a,9b-hexahydro-2-(4-methylphenyl)-1,3-dioxo-, (3aa,4a,9aa,9ba)-alpha.-(9CI) (CA INDEX NAME)

Relative stereochemistry.



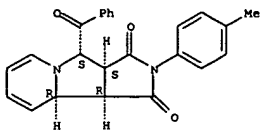
RN 90625-71-1 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-7-(trifluoromethyl)-, (3aa,4a,9aa,9ba)-alpha.-(9CI) (CA INDEX NAME)

Relative stereochemistry.



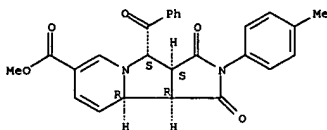
RN 90625-72-2 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,  
4-benzoyl-3a,4,9,9b-tetrahydro-  
2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)- (9CI) (CA  
INDEX NAME)

Relative stereochemistry.



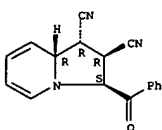
RN 90625-73-3 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-7-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-  
hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,  
(3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



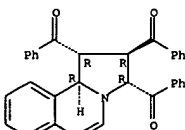
RN 90625-74-4 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-9-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-  
hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,  
(3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

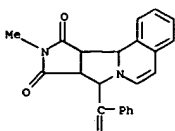


RN 97204-09-6 CAPLUS  
CN Methanone, (1,2,3,10b-tetrahydropyrrolo[2,1-a]isoquinoline-1,2,3-  
trityl)tris[phenyl]-, (1a,2β,3α,10ba)- (9CI) (CA  
INDEX NAME)

Relative stereochemistry.

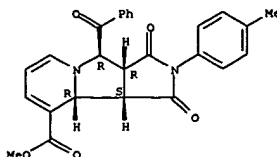


RN 97204-10-9 CAPLUS  
CN 8H-Pyrrolo[3',4':3,4]pyrrolo[2,1-a]isoquinoline-9,11(8aH,10H)-dione,  
8-benzoyl-11a,11b-dihydro-10-methyl-, (8α,8aa,11aa,11b.α  
1pha.)- (9CI) (CA INDEX NAME)



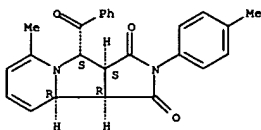
RN 97204-11-0 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-  
tetrahydro-, dimethyl ester, (1a,2β,3β,10bβ)- (9CI)  
(CA INDEX NAME)

Relative stereochemistry.



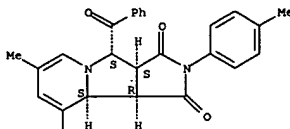
RN 90650-46-7 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,  
4-benzoyl-3a,4,9a,9b-tetrahydro-  
6-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-  
(9CI) (CA INDEX NAME)

Relative stereochemistry.



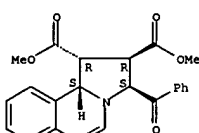
RN 90650-47-8 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,  
4-benzoyl-3a,4,9a,9b-tetrahydro-  
7,9-dimethyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-  
(9CI) (CA INDEX NAME)

Relative stereochemistry.



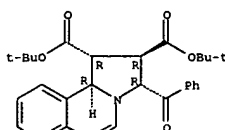
RN 97204-08-5 CAPLUS  
CN 1,2-Indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-,  
(1a,2β,3β,8aβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



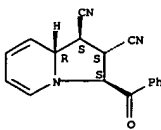
RN 97204-12-1 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-  
tetrahydro-, bis(1,1-dimethylethyl) ester, (1a,2β,3α,10b.  
α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



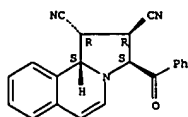
RN 97275-41-7 CAPLUS  
CN 1,2-Indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-,  
(1a,2β,3α,8aa)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



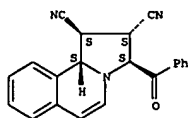
RN 97275-42-8 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-  
tetrahydro-, (1a,2β,3β,10bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



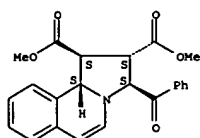
RN 97275-43-9 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro-, (1a,2β,3a,10ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

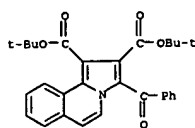


RN 97275-44-0 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-, dimethyl ester, (1a,2β,3a,10ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

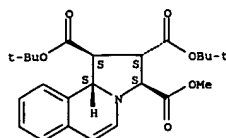


RN 104932-92-5 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



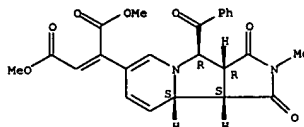
RN 104953-17-5 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 1,2,3,10b-tetrahydro-, 1,2-bis(1,1-dimethylethyl) 3-methyl ester, (1a,2β,3a,10ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

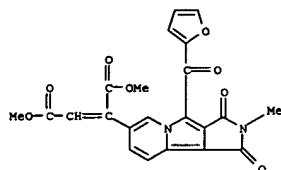


RN 104953-20-0 CAPLUS  
CN 2-Butenedioic acid, 2-(4-benzoyl-2,3,3a,4,9a,9b-hexahydro-2-methyl-1,3-dioxo-1H-pyrrolo[3,4-a]indolizin-7-yl)-, dimethyl ester, (3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
Double bond geometry unknown.

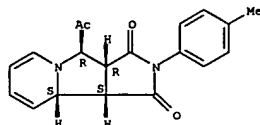


RN 104953-22-2 CAPLUS  
CN 2-Butenedioic acid, 2-[4-(2-furanylcarbonyl)-2,3-dihydro-2-methyl-1,3-dioxo-1H-pyrrolo[3,4-a]indolizin-7-yl]-, dimethyl ester (9CI) (CA INDEX NAME)



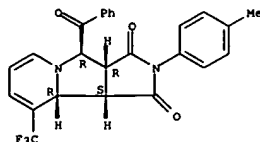
RN 104953-25-5 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-acetyl-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

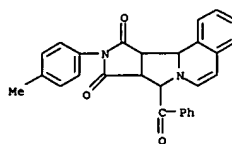


RN 104953-27-7 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-2-(4-methylphenyl)-9-(trifluoromethyl)-, (3aa,4a,9aa,9b.alpha.)- (9CI) (CA INDEX NAME)

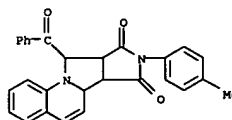
Relative stereochemistry.



RN 104953-28-8 CAPLUS  
CN 8H-Pyrrolo[3',4':3,4]pyrrolo[2,1-a]isoquinoline-9,11(8aH,10H)-dione, 8-benzoyl-11a,11b-dihydro-10-(4-methylphenyl)-, (8a,8aa,11aa,11ba)- (9CI) (CA INDEX NAME)

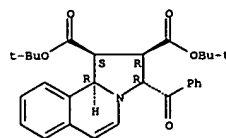


RN 104953-29-9 CAPLUS  
CN 7H-Pyrrolo[3',4':3,4]pyrrolo[1,2-a]isoquinoline-7,9(8H)-dione, 10-benzoyl-6a,6b,9a,10-tetrahydro-8-(4-methylphenyl)-, (6aa,6ba,9aa,10a)- (9CI) (CA INDEX NAME)



RN 105017-14-9 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-, bis(1,1-dimethylethyl) ester, (1a,2a,3β,10b.beta.)- (9CI) (CA INDEX NAME)

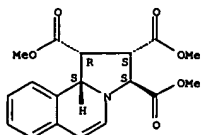
Relative stereochemistry.



RN 105017-15-0 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 1,2,3,10b-tetrahydro-, trimethyl ester, (1a,2a,3β,10bβ)- (9CI) (CA INDEX NAME)

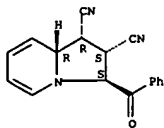
Relative stereochemistry.





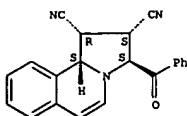
RN 105017-17-2 CAPLUS  
CN 1,2-indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-, (1a,2a,3b,8aβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

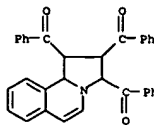


RN 105017-18-3 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro-, (1a,2a,3b,10bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

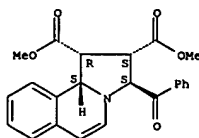


RN 105017-19-4 CAPLUS  
CN Methanone, (1,2,3,10b-tetrahydropyrrolo[2,1-a]isoquinoline-1,2,3-triyl)tris(phenyl)- (9CI) (CA INDEX NAME)

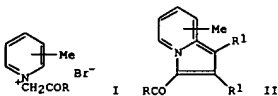


RN 105017-20-7 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-1,2,3,10b-tetrahydro-, dimethyl ester, (1a,2a,3b,10bβ)- (9CI) (CA INDEX NAME)

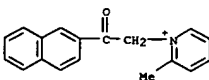
Relative stereochemistry.



L15 ANSWER 39 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1985:541813 CAPLUS  
DOCUMENT NUMBER: 103:141813  
TITLE: A synthetic approach toward the synthesis of indolizines via 1,3-dipolar cycloaddition reactions of cycloammonium ylide  
AUTHOR(S): Tewari, Ram S.; Bajpai, Anita  
CORPORATE SOURCE: Dep. Chem., H. B. Technol. Inst., Kanpur, 208 002, India  
SOURCE: Journal of Chemical and Engineering Data (1985), 30(4), 505-7  
CODEN: JCEAAX; ISSN: 0021-9568  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 103:141813  
GI

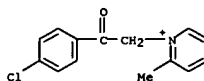


AB Dehydrobromination of picolinium bromides I (R = 4-ClC6H4, thienyl, 2-naphthyl; Me group at 2- and 4-position) with Et3N gave the highly reactive cycloammonium ylides, cycloaddn. of which with R1O2CC.tplbond.CCO2R1 (R1 = Me, Et) gave indolizines II.  
IT 6276-80-8P 82746-43-8P 96826-74-3P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and cycloaddn. of, with acetylenedicarboxylate)  
RN 6276-80-8 CAPLUS  
CN Pyridinium, 2-methyl-1-[2-(2-naphthalenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



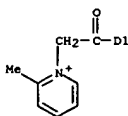
● Br<sup>-</sup>

RN 82746-43-8 CAPLUS  
CN Pyridinium, 1-[2-(4-chlorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



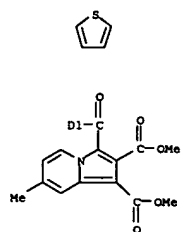
● Br<sup>-</sup>

RN 96826-74-3 CAPLUS  
CN Pyridinium, 2-methyl-1-[2-oxo-2-(thienyl)ethyl]-, bromide (9CI) (CA INDEX NAME)

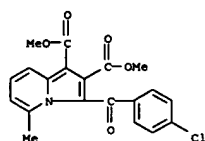


● Br<sup>-</sup>

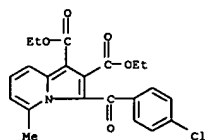
IT 96826-76-5P 96844-93-8P 96844-94-9P  
96844-95-0P 96844-96-1P 96844-97-2P  
96844-98-3P 96844-99-4P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
RN 96826-76-5 CAPLUS  
CN 1,2-indolizinedicarboxylic acid, 7-methyl-3-(thienylcarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)



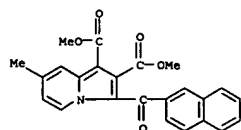
RN 96844-93-8 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-5-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



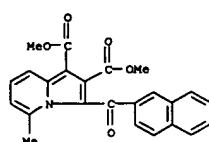
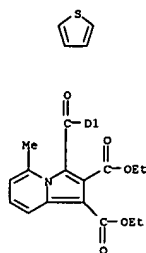
RN 96844-94-9 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



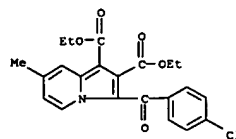
RN 96844-95-0 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 5-methyl-3-(2-naphthalenylcarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)



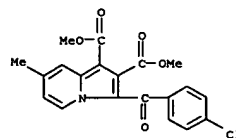
RN 96844-99-4 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 5-methyl-3-(thienylcarbonyl)-, diethyl ester (9CI) (CA INDEX NAME)



RN 96844-96-1 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)

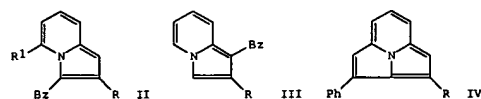


RN 96844-97-2 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-(4-chlorobenzoyl)-7-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



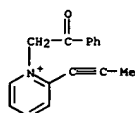
RN 96844-98-3 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 7-methyl-3-(2-naphthalenylcarbonyl)-, dimethyl ester (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1985:184953 CAPLUS  
DOCUMENT NUMBER: 102:184953  
TITLE: Thermal intramolecular cyclization of 2-ethynylpyridine N-ylides to indolizines and cyclazines  
AUTHOR(S): Tsuchiya, Takashi; Kato, Masanobu; Sashida, Haruki  
CORPORATE SOURCE: Sch. Pharm., Hokuriku Univ., Kanazawa, 920, Japan  
SOURCE: Chemical & Pharmaceutical Bulletin (1984), 32(11), 4666-9  
CODEN: CPBTAL; ISSN: 0009-2363  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 102:184953  
GI



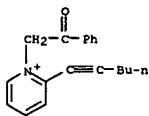
AB Treatment of 2-alkynyl-1-phenacylpyridinium bromides I, prepared from 2-alkynylpyridines and PhCOCH<sub>2</sub>Br, with a base in refluxing C<sub>6</sub>H<sub>6</sub> gave 3-benzoylindolizines II (R = Me, Bu, Ph; R<sub>1</sub>H), whereas heating I in refluxing HOAc afforded 1-benzoylindolizines III. Upon similar treatment with base, 2-alkynyl-6-methyl-1-phenacylpyridinium bromides gave 2-phenylcyl[3.2.2]azines IV together with III (R<sub>1</sub> = Me). However, the reaction of 6-amino-2-alkynylpyridines with PhCOCH<sub>2</sub>Br resulted in the formation of 1-aza-indolizines, which were treated with base to give 1-azacycl[3.2.2]azines. Mechanisms for these intramol. cyclization via pyridine N-ylide intermediates are discussed.

IT 96206-84-7P 96206-85-8P 96206-86-9P  
96206-87-0P 96206-88-1P 96206-89-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with base)  
RN 96206-84-7 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)



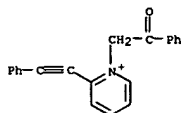
L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 96206-85-8 CAPLUS  
CN Pyridinium, 2-(1-hexynyl)-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

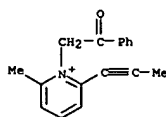
RN 96206-86-9 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

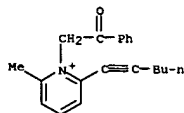
RN 96206-87-0 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(1-propynyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



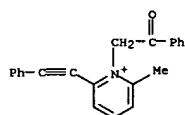
● Br<sup>-</sup>

RN 96206-88-1 CAPLUS  
CN Pyridinium, 2-(1-hexynyl)-6-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

RN 96206-89-2 CAPLUS  
CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-6-(phenylethynyl)-, bromide (9CI) (CA INDEX NAME)

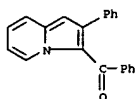


● Br<sup>-</sup>

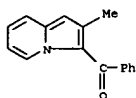
IT 14759-45-6P 36944-82-8P 96206-93-8P  
96206-96-1P 96206-97-2P 96206-98-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)

L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
(prepn. of)

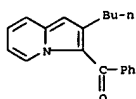
RN 14759-45-6 CAPLUS  
CN Methanone, phenyl(2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



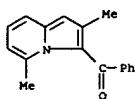
RN 36944-82-8 CAPLUS  
CN Methanone, (2-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 96206-93-8 CAPLUS  
CN Methanone, (2-butyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

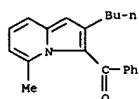


RN 96206-96-1 CAPLUS  
CN Methanone, (2,5-dimethyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

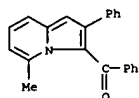


RN 96206-97-2 CAPLUS  
CN Methanone, (2-butyl-5-methyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

L15 ANSWER 40 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

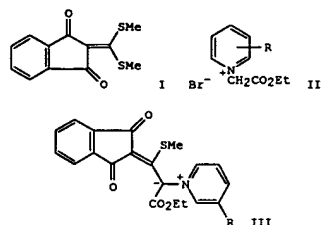


RN 96206-98-3 CAPLUS  
CN Methanone, (5-methyl-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

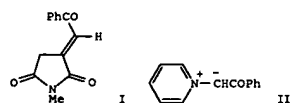
ACCESSION NUMBER: 1985:6390 CAPLUS  
DOCUMENT NUMBER: 102:6390  
TITLE: Reaction of 2-[(bis(methylthio)methylene)indan-1,3-dione with N-ylides and S-ylides  
AUTHOR(S): Tominaga, Yoshinori; Morisue, Hajime; Matsuda, Yoshiro; Kobayashi, Goro  
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan  
SOURCE: Chemical & Pharmaceutical Bulletin (1984), 32(8), 2910-14  
CODEN: CPBTAL; ISSN: 0009-2363  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 102:6390  
GI



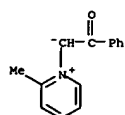
AB The reaction of the title compound (I) with pyridinium N-ylides II (R = H, 3-Me, 2-Me, 2-NH<sub>2</sub>) gave the corresponding stable pyridinium N-allylides III (R = H, Me), 2-(2-indanyl)indolizine, and 3-(2-indanylidene)methylimidazo[1,2-a]pyridine in good yields. A fused thiazabenzene oxide, 2-methyl-4-methylthio-5-oxo-5H-indeno[1,2-c]thiopyran 2-oxide, was synthesized by the reaction of I with trimethylsulfoxonium iodide under similar conditions. An azathiabenzene oxide, 2-methyl-4-methylthio-5-oxo-5H-indeno[2,1-d][1,2]thiazine 2-oxide was also synthesized from 2-(1-dimethylsulfoximino-1-methylthio)methyleneindan-1,3-dione, which was prepared from I and sulfoximine.  
IT 93700-20-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 93700-20-0 CAPLUS  
CN 3-indolizinecarboxylic acid, 2-(2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:423286 CAPLUS  
DOCUMENT NUMBER: 101:23286  
TITLE: Stereoselective hydroalkylation of olefins with pyridinium methylides  
AUTHOR(S): Tsuge, Otohiko; Kanemasa, Shuji; Takenaka, Shigeori; Kuraoka, Satoru  
CORPORATE SOURCE: Grad. Sch. Eng. Sci., Kyushu Univ., Kasuga, 816, Japan  
SOURCE: Chemistry Letters (1984), (3), 465-8  
CODEN: CMLTAG; ISSN: 0366-7022  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 101:23286  
GI

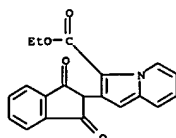


AB Acid-catalyzed elimination of pyridine from the stereoselective [3+2] cycloadducts between electron-deficient olefins and pyridinium methylides with ylide-stabilizing substituents was carried out. Thus, the pyrrolidine I was prepared in 86% yield by treating the pyridinium phenacylide II with N-methylmaleimide.  
IT 51386-37-9  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cycloaddn. reaction of, with tolylmaleimide)  
RN 51386-37-9 CAPLUS  
CN Pyridinium, 2-methyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

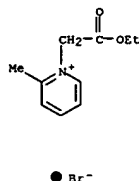


IT 90625-67-5P 90625-68-6P 90625-69-7P  
90650-46-7P 90650-47-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and elimination reaction of)  
RN 90625-67-5 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-7-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)  
Relative stereochemistry.

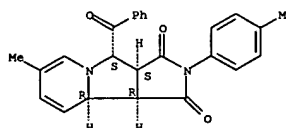
L15 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 55814-02-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with bis(methylthio)methyleneindandione)  
RN 55814-02-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

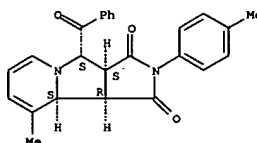


L15 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



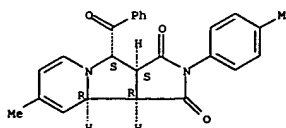
RN 90625-68-6 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-9-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



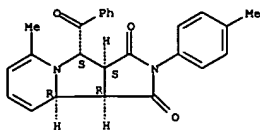
RN 90625-69-7 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-8-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



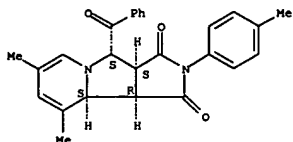
RN 90650-46-7 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione, 4-benzoyl-3a,4,9a,9b-tetrahydro-6-methyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



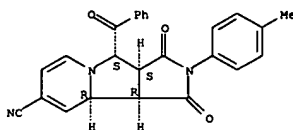
RN 90650-47-8 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,  
4-benzoyl-3a,4,9a,9b-tetrahydro-  
7,9-dimethyl-2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)-  
(9CI) (CA INDEX NAME)

Relative stereochemistry.

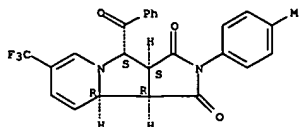
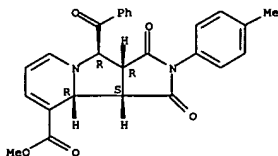


IT 90625-70-0P 90625-71-1P 90625-72-2P  
90625-73-3P 90625-74-4P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 90625-70-0 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-8-carbonitrile, 4-benzoyl-2,3,3a,4,9a,9b-  
hexahydro-2-(4-methylphenyl)-1,3-dioxo-, (3aa,4a,9aa,9b.  
alpha.)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

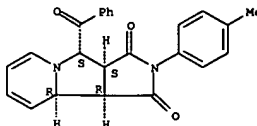


RN 90625-71-1 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,  
4-benzoyl-3a,4,9a,9b-tetrahydro-  
2-(4-methylphenyl)-7-(trifluoromethyl)-, (3aa,4a,9aa,9b.  
alpha.)-(9CI) (CA INDEX NAME)



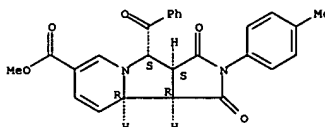
RN 90625-72-2 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-1,3(2H)-dione,  
4-benzoyl-3a,4,9,9b-tetrahydro-  
2-(4-methylphenyl)-, (3aa,4a,9aa,9ba)- (9CI) (CA  
INDEX NAME)

Relative stereochemistry.



RN 90625-73-3 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-7-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-  
hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,  
(3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

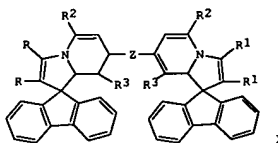


RN 90625-74-4 CAPLUS  
CN 1H-Pyrrolo[3,4-a]indolizine-9-carboxylic acid, 4-benzoyl-2,3,3a,4,9a,9b-  
hexahydro-2-(4-methylphenyl)-1,3-dioxo-, methyl ester,  
(3aa,4a,9aa,9ba)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



ACCESSION NUMBER: 1984:148421 CAPLUS  
DOCUMENT NUMBER: 100:148421  
TITLE: Photochrome systems according to size: first  
spiro-1,8a-dihydroindolizine bichromophores  
AUTHOR(S): Spang, Peter; Duerst, Heinz  
CORPORATE SOURCE: Univ. Saarbruecken, Saarbruecken, D-6600, Fed. Rep.  
Ger.  
SOURCE: Angewandte Chemie (1984), 96(3), 227-9  
CODEN: ANCEAD; ISSN: 0044-8249  
DOCUMENT TYPE: Journal  
LANGUAGE: German  
GI

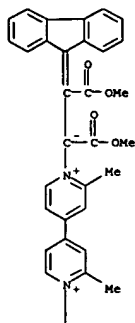


AB The preparation and spectral properties of spiro-1, 8a-dihydroindolizine  
bichromophores of the formula I (R,R1 = Ac, MeO2C; R2,R3 = H, Me; Z =  
(CH2)2, CH=CH, or a bond) are described. These compds., which are  
prepared

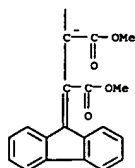
by reaction of a spirocyclopropene with a bipyridine, a  
4,4'-ethylenebipyridine, or a 4,4'-vinylenebipyridine, have potential  
applications in optical image and data recording, the energy conversion  
of

sunlight, and the like.  
IT 88969-24-8P 88969-29-3P  
RL: PREP (Preparation)  
(formation and spectral properties of, photochromism in relation to)  
RN 88969-24-8 CAPLUS  
CN 4,4'-Bipyridinium, 2,2'-dimethyl-,  
bis[2-(9H-fluoren-9-ylidene)-3-methoxy-  
1-(methoxycarbonyl)-3-oxopropylidene] (9CI) (CA INDEX NAME)

PAGE 1-A

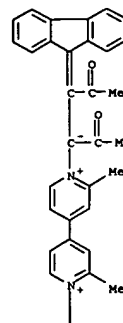


PAGE 2-A

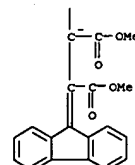


RN 88969-29-3 CAPLUS  
CN 4,4'-Bipyridinium, 2,2'-dimethyl-, 1-acetyl-2-(9H-fluoren-9-ylidene)-3-oxobutylide 2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropylide (9CI) (CA INDEX NAME)

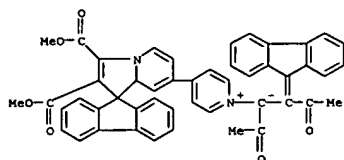
PAGE 1-A



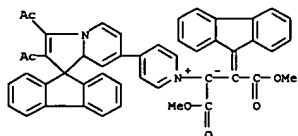
PAGE 2-A



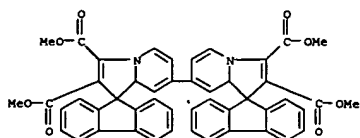
IT 88981-06-0P 88981-07-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and photolysis of)  
RN 88981-06-0 CAPLUS  
CN Pyridinium, 4-[2',3'-bis(methoxycarbonyl)spiro[9H-fluorene-9,1'(8'aH)-indolizin]-7'-yl]-, 1-acetyl-2-(9H-fluoren-9-ylidene)-3-oxobutylide (9CI) (CA INDEX NAME)



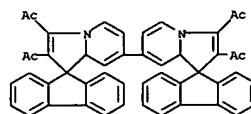
RN 88981-07-1 CAPLUS  
CN Pyridinium, 4-(2',3'-diacetylspiro[9H-fluorene-9,1'(8'aH)-indolizin]-7'-yl)-, 2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropylide (9CI) (CA INDEX NAME)



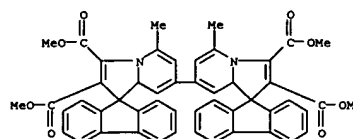
IT 88980-97-6P 88980-98-7P 88980-99-8P  
88981-00-4P 88981-01-5P 88981-02-6P  
88981-03-7P 88981-04-8P 88981-05-9P  
RL: PRP (Properties); PREP (Preparation)  
(preparation and spectral properties of, photochromism in relation to)  
RN 88980-97-6 CAPLUS  
CN [7',7'''-Bispiro[9H-fluorene-9,1'(8'aH)-indolizin]-2',2''',3',3'''-tetracarboxylic acid, tetramethyl ester (9CI) (CA INDEX NAME)



RN 88980-98-7 CAPLUS  
CN Ethanone, 1,1',1'',1'''-[7',7'''-bispiro[9H-fluorene-9,1'(8'aH)-indolizin]-2',2''',3',3'''-tetrayltetrakis- (9CI) (CA INDEX NAME)

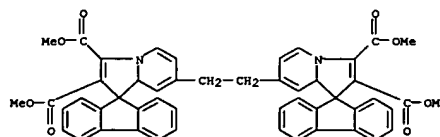


RN 88980-99-8 CAPLUS  
CN [7',7'''-Bispiro[9H-fluorene-9,1'(8'aH)-indolizin]-2',2''',3',3'''-tetracarboxylic acid, 5',5'''-dimethyl-, tetramethyl ester (9CI) (CA INDEX NAME)

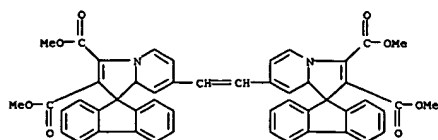


RN 88981-00-4 CAPLUS  
CN [7',7'''-Bispiro[9H-fluorene-9,1'(8'aH)-indolizin]-2',2''',3',3'''-tetracarboxylic acid, 8',8'''-dimethyl-, tetramethyl ester (9CI) (CA INDEX NAME)

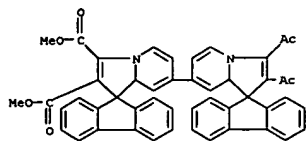
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
RN 88981-01-5 CAPLUS  
CN Spiro[9H-fluorene-9,1'(8'aH)-indolizin]-2',3'-dicarboxylic acid, 7',7'''-(1,2-ethenediyl)bis-, tetramethyl ester (9CI) (CA INDEX NAME)



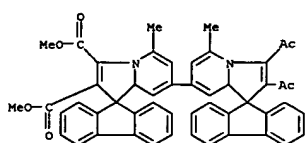
RN 88981-02-6 CAPLUS  
CN Spiro[9H-fluorene-9,1'(8'aH)-indolizin]-2',3'-dicarboxylic acid, 7',7'''-(1,2-ethenediyl)bis-, tetramethyl ester (9CI) (CA INDEX NAME)



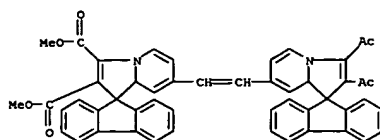
RN 88981-03-7 CAPLUS  
CN [7',7'''-Bispiro[9H-fluorene-9,1'(8'aH)-indolizine]]-2',3'-dicarboxylic acid, 2''',3'''-diacetyl-, dimethyl ester (9CI) (CA INDEX NAME)



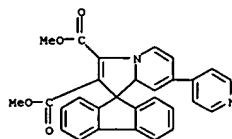
RN 88981-04-8 CAPLUS  
CN [7',7'''-Bispiro[9H-fluorene-9,1'(8'aH)-indolizine]]-2',3'-dicarboxylic acid, 2''',3'''-diacetyl-5',5'''-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



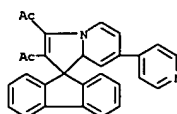
RN 88981-05-9 CAPLUS  
CN Spiro[9H-fluorene-9,1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 7'-(2-(2',3'-diacetylspiro[9H-fluorene-9,1'(8'aH)-indolizine]-7'-yl)ethenyl)-, dimethyl ester (9CI) (CA INDEX NAME)



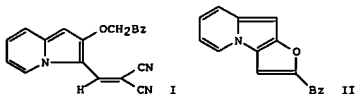
IT 88980-95-4 88980-96-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with spirocyclopropene)  
RN 88980-95-4 CAPLUS  
CN Spiro[9H-fluorene-9,1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 7'-(4-pyridinyl)-, dimethyl ester (9CI) (CA INDEX NAME)



RN 88980-96-5 CAPLUS  
CN Ethanone, 1,1'-[7'-(4-pyridinyl)spiro[9H-fluorene-9,1'(8'aH)-indolizine]-2',3'-diyl]bis- (9CI) (CA INDEX NAME)

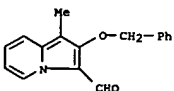


ACCESSION NUMBER: 1983:505143 CAPLUS  
DOCUMENT NUMBER: 99:105143  
TITLE: Preparation of new nitrogen-bridged heterocycles. 6. First synthesis of 2-arylfuro[2,3-b]indolizine derivatives  
AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka; Ohizumi, Tsuyoshi; Ito, Masayoshi  
CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan  
SOURCE: Bulletin of the Chemical Society of Japan (1983), 56(4), 1219-22  
CODEN: BCSJAB; ISSN: 0009-2673  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI

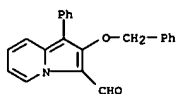


AB Alkaline treatment of 2-(arylmethoxy)-3-(2,2-dicyanovinyl)indolizine deriva., readily available from the step-by-step reactions of 1-(ethoxycarbonylmethyl)-2-picolinium salts with a base, (ethoxymethylene)malononitrile followed by some phenacyl bromides in EtOH, afforded smoothly the title compds. in good yields. E.g., treating indolizine I with aqueous KOH gave 97% furoindolizine II. These furoindolizines could be also obtained directly from the pyridinium salts without the isolation of intermediate 3-vinylindolizines. Formation mechanisms and some phys. properties of these furoindolizines are also discussed.

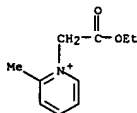
IT 86842-94-6P 86842-95-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 86842-94-6 CAPLUS  
CN 3-Indolizinecarboxaldehyde, 1-methyl-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 86842-95-7 CAPLUS  
CN 3-Indolizinecarboxaldehyde, 1-phenyl-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)

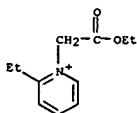


IT 58963-28-3 70257-97-5 74360-64-8  
84919-62-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with (ethoxymethylene)malononitrile and phenacyl bromide)  
RN 58963-28-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)



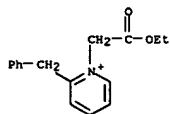
● Cl<sup>-</sup>

RN 70257-97-5 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-ethyl-, bromide (9CI) (CA INDEX NAME)

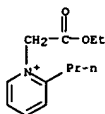


● Br<sup>-</sup>

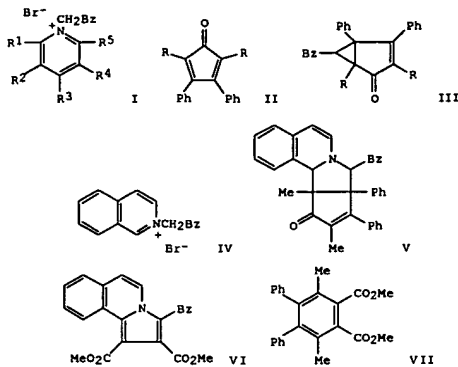
RN 74360-64-8 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

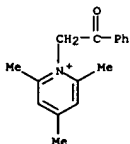
RN 84919-62-0 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-propyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

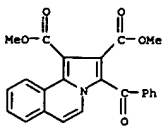
L15 ANSWER 45 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1983:453200 CAPLUS  
DOCUMENT NUMBER: 99:53200  
TITLE: Reaction of pyridinium phenacylides and related ylides  
AUTHOR(S): with cyclopentadienone derivatives  
CORPORATE SOURCE: Yamashita, Yoshiro; Miyauchi, Yukio; Masumura, Mitsuo  
SOURCE: Fac. Eng., Tokushima Univ., Tokushima, 770, Japan  
Chemistry Letters (1983), (4), 489-92  
CODEN: CHLTAG; ISSN: 0366-7022  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 99:53200  
GI



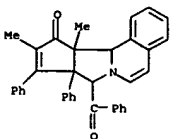
AB The nucleophilic addition reaction of I (R1-R5 = H; R1 = R2 = R4 = R5 = H, R3 = Me; R1 = R3 = R5 = H, Me, R2 = R4 = H, Me; R1 = R3 = R4 = R5 = H, R2 = CN) with II (R = Me, Et, Ph) to give III was studied. Refluxing IV with II (R = Me) and K2CO3 in MeCN gave V which on reaction with MeOCC.tpbond.CCO2Me gave VI and VII.  
IT 86551-94-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(addition reaction of, with cyclopentadienones)  
RN 86551-94-2 CAPLUS  
CN Pyridinium, 2,4,6-trimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

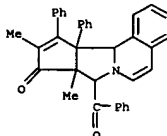
IT 17281-89-9P 86552-01-4P 86552-02-5P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 17281-89-9 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarboxylic acid, 3-benzoyl-, dimethyl ester (8CI, 9CI) (CA INDEX NAME)



RN 86552-01-4 CAPLUS  
CN 11H-Cyclopenta[3,4]pyrrolo[2,1-a]isoquinolin-11-one, 8-benzoyl-8,8a,11a,11b-tetrahydro-10,11a-dimethyl-8a,9-diphenyl- (9CI) (CA INDEX NAME)



RN 86552-02-5 CAPLUS  
CN 9H-Cyclopenta[3,4]pyrrolo[2,1-a]isoquinolin-9-one, 8-benzoyl-8,8a,11a,11b-tetrahydro-8a,10-dimethyl-11,11a-diphenyl- (9CI) (CA INDEX NAME)





L15 ANSWER 46 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 1983:215441 CAPLUS

ACCESSION NUMBER:  
 DOCUMENT NUMBER:  
 TITLE:

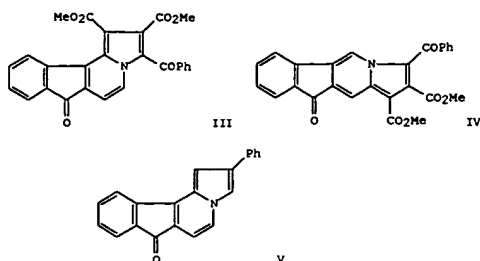
AUTHOR(S):

CORPORATE SOURCE:  
 SOURCE:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):  
 GI



AB 3-Azafluorene was oxidized to the 9-oxo derivative (I) and converted into the phenacyl quaternary salt (II) cyclization of which with MeO2CC.tplbond.CCO2Me gave III and IV; I was also oxidized to the N-oxide and nitrated to the 7-NO2 derivative Cyclization of the 4-Me analog of II gave V.  
 IT 85826-48-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 85826-48-8 CAPLUS  
 CN 5H-Indeno[1,2-c]pyridinium, 1-methyl-5-oxo-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 1983:89112 CAPLUS

ACCESSION NUMBER:  
 DOCUMENT NUMBER:  
 TITLE:

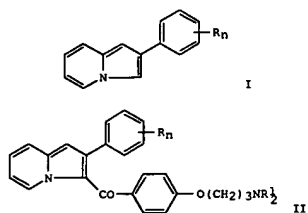
AUTHOR(S):

CORPORATE SOURCE:  
 Belg.  
 SOURCE:

DOCUMENT TYPE:

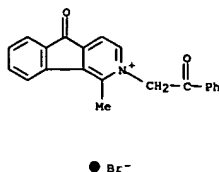
LANGUAGE:

OTHER SOURCE(S):  
 GI

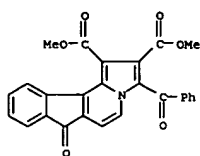


AB Indolizines I (Rn = H, F, Cl, Br, Me, 3,4-Cl2, 3,4-ClMe) were converted to benzoylindolizines II (R1 = Cl-4 alkyl), useful in the treatment of angina pectoris (no data). I (Rn = H) was acylated by 4-(4-MeC6H4SO3)C6H4COCl, the product was detosylated, and subsequent etherification with Br(CH2)3Br and treatment with Me2NH gave II (Rn = H, R1 = Me).  
 IT 366-61-0 32896-98-3 82746-41-6  
 82746-42-7 82746-43-8 82746-47-2  
 84626-98-2 84626-99-3 84642-89-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclocondensation of)  
 RN 366-61-0 CAPLUS  
 CN Pyridinium, 1-[2-(4-fluorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

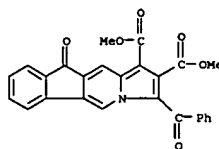
L15 ANSWER 46 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



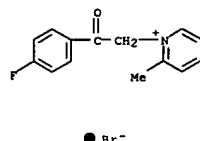
IT 82672-00-2P 82672-01-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 82672-00-2 CAPLUS  
 CN 7H-Indeno[2,1-g]indolizine-1,3-dicarboxylic acid, 3-benzoyl-7-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



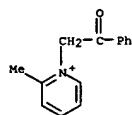
RN 82672-01-3 CAPLUS  
 CN 10H-Indeno[1,2-f]indolizine-1,2-dicarboxylic acid, 3-benzoyl-10-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



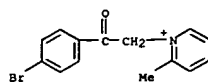
L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



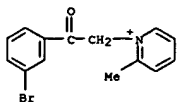
RN 32896-98-3 CAPLUS  
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



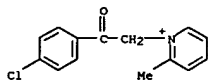
RN 82746-41-6 CAPLUS  
 CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



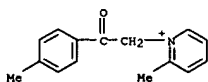
RN 82746-42-7 CAPLUS  
 CN Pyridinium, 1-[2-(3-bromophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

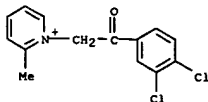
RN 82746-43-8 CAPLUS  
CN Pyridinium, 1-[2-(4-chlorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

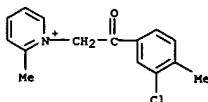
RN 82746-47-2 CAPLUS  
CN Pyridinium, 2-methyl-1-[2-(4-methylphenyl)-2-oxoethyl]-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

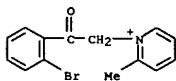
RN 84626-98-2 CAPLUS  
CN Pyridinium, 1-[2-(3,4-dichlorophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

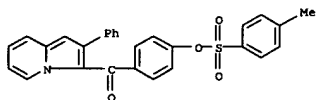
RN 84626-99-3 CAPLUS  
CN Pyridinium, 1-[2-(3-chloro-4-methylphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

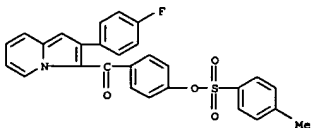
RN 84642-89-7 CAPLUS  
CN Pyridinium, 1-[2-(2-bromophenyl)-2-oxoethyl]-2-methyl-, bromide (9CI)  
(CA INDEX NAME)

● Br<sup>-</sup>

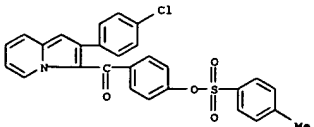
IT 64676-33-1P 64676-34-2P 64676-35-3P  
64676-36-4P 64676-38-6P 64676-39-7P  
64676-40-0P 64676-41-1P 64676-42-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and detosylation of)  
RN 64676-33-1 CAPLUS  
CN Methanone, [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl] (2-phenyl-3-



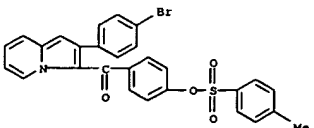
RN 64676-34-2 CAPLUS  
CN Methanone, [2-(4-fluorophenyl)-3-indolizinyloxy] [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



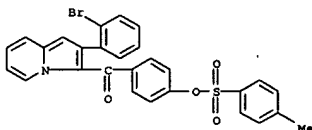
RN 64676-35-3 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxy] [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



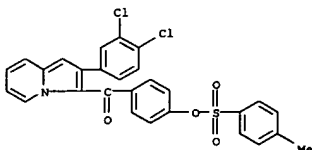
RN 64676-36-4 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indolizinyloxy] [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



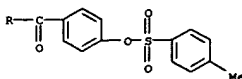
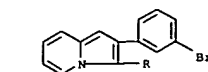
RN 64676-38-6 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indolizinyloxy] [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



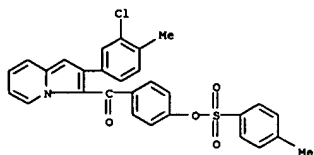
RN 64676-39-7 CAPLUS  
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizinyloxy] [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



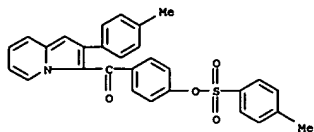
RN 64676-40-0 CAPLUS  
CN Methanone, [2-(3-bromophenyl)-3-indolizinyloxy] [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



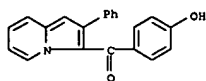
RN 64676-41-1 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyloxy] [4-[[[4-methylphenyl)sulfonyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



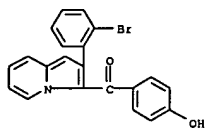
RN 64676-42-2 CAPLUS  
CN Methanone, [2-(4-methylphenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



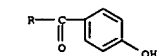
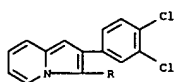
IT 64676-43-3P 64676-44-4P 64676-45-5P  
64676-46-6P 64676-48-8P 64676-49-9P  
64676-50-2P 64676-51-3P 64676-52-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
of preparation and O-alkylation of, by dibromopropane, and substitution  
product with dialkylamines)  
RN 64676-43-3 CAPLUS  
CN Methanone, (4-hydroxyphenyl) (2-phenyl-3-indolizinyloxyphenyl)- (9CI) (CA INDEX NAME)



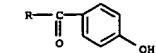
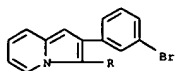
RN 64676-44-4 CAPLUS  
CN Methanone, [2-(4-fluorophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



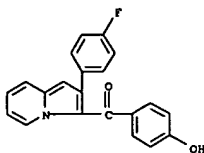
RN 64676-49-9 CAPLUS  
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



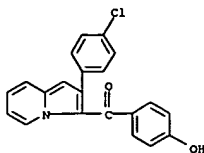
RN 64676-50-2 CAPLUS  
CN Methanone, [2-(3-bromophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



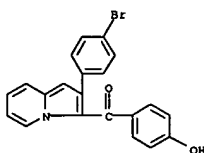
RN 64676-51-3 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



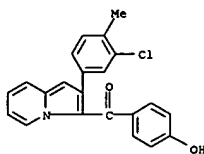
RN 64676-45-5 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



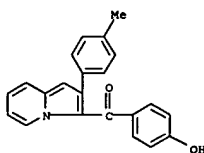
RN 64676-46-6 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



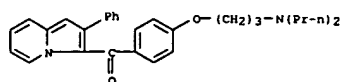
RN 64676-48-8 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



RN 64676-52-4 CAPLUS  
CN Methanone, (4-hydroxyphenyl) [2-(4-methylphenyl)-3-indolizinyloxyphenyl]- (9CI) (CA INDEX NAME)



IT 84626-69-7P 84626-70-0P 84626-71-1P  
84626-72-2P 84626-73-3P 84626-74-4P  
84626-75-5P 84626-76-6P 84626-77-7P  
84626-78-8P 84626-79-9P 84626-80-2P  
84626-81-3P 84626-82-4P 84626-83-5P  
84626-84-6P 84626-85-7P 84626-86-8P  
84626-87-9P 84626-88-0P 84626-89-1P  
84626-90-4P 84626-91-5P 84626-92-6P  
84626-93-7P 84626-94-8P 84626-95-9P  
84626-96-0P 84626-97-1P 84627-00-9P  
84627-01-0P 84627-02-1P 84627-03-2P  
84642-86-4P 84642-87-5P 84642-88-6P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 84626-69-7 CAPLUS  
CN Methanone, [4-(3-(dipropylamino)propoxy)phenyl] (2-phenyl-3-indolizinyloxyphenyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)  
CM 1  
CRN 64676-56-8  
CHF C30 H34 N2 O2

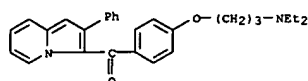


CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84626-70-0 CAPLUS  
CN Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-phenyl-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

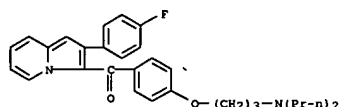
CRN 64704-60-5  
CMF C28 H30 N2 O2

CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84626-71-1 CAPLUS  
CN Methanone, [4-{3-(dimethylamino)propoxy}phenyl][2-phenyl-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

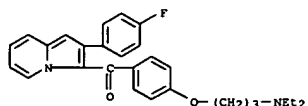
CRN 64676-58-0  
CMF C26 H26 N2 O2

CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84626-74-4 CAPLUS  
CN Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-(4-fluorophenyl)-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

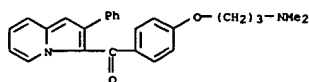
CM 1

CRN 64676-64-8  
CMF C28 H29 F N2 O2

CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84626-75-5 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxy][4-{3-(diethylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

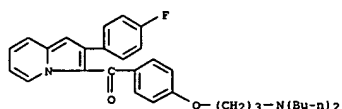


CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84626-72-2 CAPLUS  
CN Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-(4-fluorophenyl)-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-60-4  
CMF C32 H37 F N2 O2

CM 2

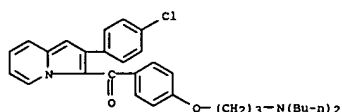
CRN 144-62-7  
CMF C2 H2 O4

RN 84626-73-3 CAPLUS  
CN Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-(4-fluorophenyl)-3-indolizinyloxy]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-62-6

CM 1

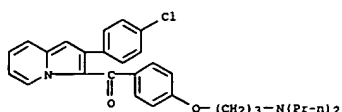
CRN 64676-68-2  
CMF C32 H37 Cl N2 O2

CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84626-76-6 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxy][4-{3-(diethylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-70-6  
CMF C30 H33 Cl N2 O2

CM 2

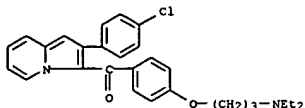
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-77-7 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-72-8  
CMF C28 H29 Cl N2 O2



CM 2

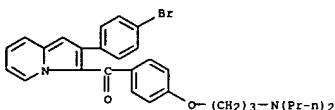
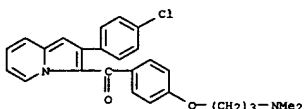
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-78-8 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny] [4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-74-0  
CMF C26 H25 Cl N2 O2



CM 2

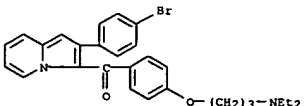
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-81-3 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-80-8  
CMF C28 H29 Br N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 84626-82-4 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 2

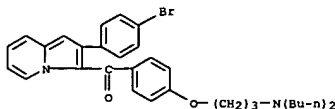
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-79-9 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-76-2  
CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



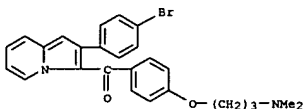
RN 84626-80-2 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indoliziny] [4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-78-4  
CMF C30 H33 Br N2 O2

CM 1

CRN 64676-82-0  
CMF C26 H25 Br N2 O2



CM 2

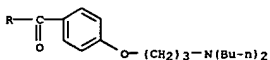
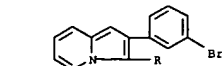
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-83-5 CAPLUS  
CN Methanone, [2-(3-bromophenyl)-3-indoliziny] [4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-08-3  
CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4

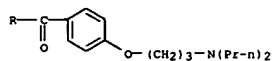
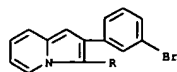


RN 84626-84-6 CAPLUS  
CN Methanone, [2-(3-bromophenyl)-3-indoliziny] [4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-10-7

CMF C30 H33 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4



RN 84626-85-7 CAPLUS  
CN Methanone, [2-(3-bromophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-12-9

CMF C28 H29 Br N2 O2

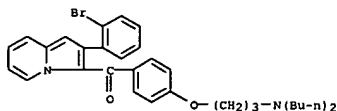


RN 84626-87-9 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indoliziny] [4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-92-2

CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

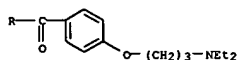
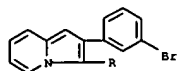
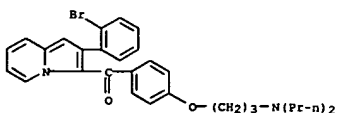


RN 84626-88-0 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indoliziny] [4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-94-4

CMF C30 H33 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

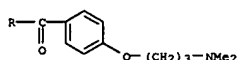
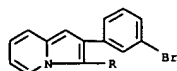


RN 84626-86-8 CAPLUS  
CN Methanone, [2-(3-bromophenyl)-3-indoliziny] [4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-14-1

CMF C26 H25 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

CM 2

CRN 144-62-7

CMF C2 H2 O4

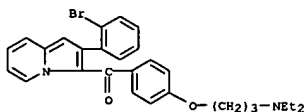


RN 84626-89-1 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indoliziny] [4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-96-6

CMF C28 H29 Br N2 O2



CM 2

CRN 144-62-7

CMF C2 H2 O4

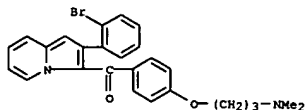


RN 84626-90-4 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indoliziny] [4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-98-8

CMF C26 H25 Br N2 O2

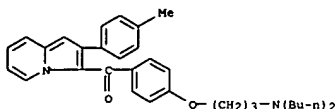


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-91-5 CAPLUS  
CM Methanone, [4-{3-(dibutylamino)propoxy}phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1  
CRN 64677-24-3  
CMF C33 H40 N2 O2



CM 2  
CRN 144-62-7  
CMF C2 H2 O4

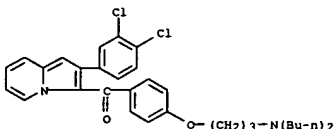


RN 84626-92-6 CAPLUS  
CM Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

L15 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CM Methanone, [4-{3-(dibutylamino)propoxy}phenyl][2-(3,4-dichlorophenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1  
CRN 64677-00-5  
CMF C32 H36 Cl2 N2 O2

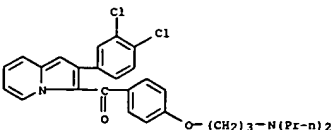


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



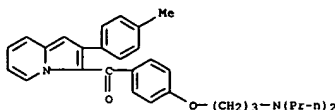
RN 84626-95-9 CAPLUS  
CM Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-{3-(dipropylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1  
CRN 64677-02-7  
CMF C30 H32 Cl2 N2 O2



CM 2  
CRN 144-62-7  
CMF C2 H2 O4

CRN 64677-26-5  
CMF C31 H36 N2 O2

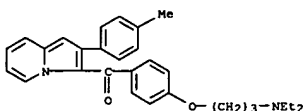


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-93-7 CAPLUS  
CM Methanone, [4-{3-(diethylamino)propoxy}phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1  
CRN 64677-28-7  
CMF C29 H32 N2 O2



CM 2  
CRN 144-62-7  
CMF C2 H2 O4

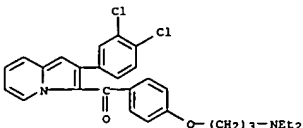


RN 84626-94-8 CAPLUS



RN 84626-96-0 CAPLUS  
CM Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-{3-(diethylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1  
CRN 64677-04-9  
CMF C28 H28 Cl2 N2 O2

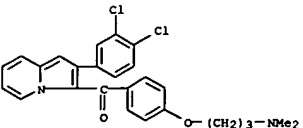


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 84626-97-1 CAPLUS  
CM Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-{3-(dimethylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1  
CRN 64677-06-1  
CMF C26 H24 Cl2 N2 O2

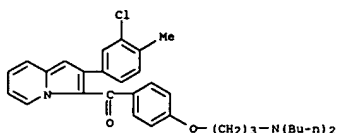


CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84627-00-9 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-{3-(dibutylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-16-3  
CMF C33 H39 Cl N2 O2

CM 2

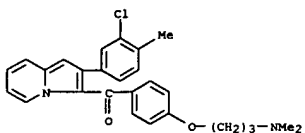
CRN 144-62-7  
CMF C2 H2 O4

RN 84627-01-0 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-{3-(diethylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-18-5  
CMF C31 H35 Cl N2 O2

CM 1

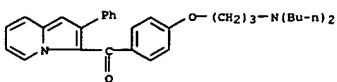
CRN 64677-22-1  
CMF C27 H27 Cl N2 O2

CM 2

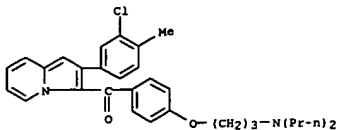
CRN 144-62-7  
CMF C2 H2 O4

RN 84642-86-4 CAPLUS  
CN Methanone, [4-{3-(dibutylamino)propoxy}phenyl][2-phenyl-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64676-54-6  
CMF C32 H38 N2 O2

CM 2

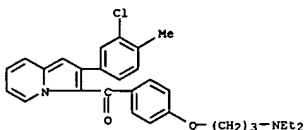
CRN 144-62-7  
CMF C2 H2 O4

CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84627-02-1 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-{3-(diethylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-20-9  
CMF C29 H31 Cl N2 O2

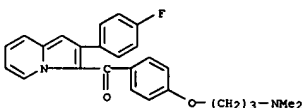
CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84627-03-2 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-{3-(dimethylamino)propoxy}phenyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

RN 84642-87-5 CAPLUS  
CN Methanone, [4-{3-(dimethylamino)propoxy}phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

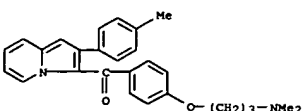
CRN 64676-66-0  
CMF C26 H25 F N2 O2

CM 2

CRN 144-62-7  
CMF C2 H2 O4

RN 84642-88-6 CAPLUS  
CN Methanone, [4-{3-(dimethylamino)propoxy}phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 64677-30-1  
CMF C27 H28 N2 O2

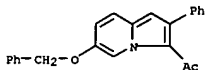
CM 2

CRN 144-62-7  
CMF C2 H2 O4

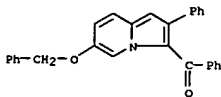




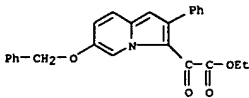
L15 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 84269-85-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and hydrogenolysis of)  
 RN 84269-82-9 CAPLUS  
 CN Ethanone, 1-[2-phenyl-6-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



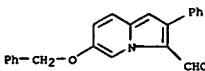
RN 84269-83-0 CAPLUS  
 CN Methanone, phenyl[2-phenyl-6-(phenylmethoxy)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 84269-84-1 CAPLUS  
 CN 3-Indolizineacetic acid, α-oxo-2-phenyl-6-(phenylmethoxy)-, ethyl ester (9CI) (CA INDEX NAME)

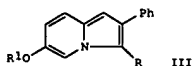


RN 84269-85-2 CAPLUS  
 CN 3-Indolizinecarboxaldehyde, 2-phenyl-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT 84269-87-4P 84269-88-5P 84269-89-6P  
 84269-90-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

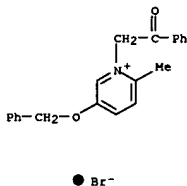
L15 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1983:53596 CAPLUS  
 DOCUMENT NUMBER: 98:53596  
 TITLE: Synthesis of new phenols. Part 2. Derivatives of 6-hydroxy-2-phenylindolizine  
 AUTHOR(S): Guet, Chantal; Blondeau, Dominique; Sliwa, Henri  
 CORPORATE SOURCE: Lab. Chim. Org., Univ. Sci. Tech. Lille, Villeneuve d'Ascq, F-59655, Fr.  
 SOURCE: Journal of Chemical Research, Synopses (1982), (9), 245  
 CODEN: JRPSDC; ISSN: 0308-2342  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English/French  
 OTHER SOURCE(S): CASREACT 98:53596  
 GI



AB The benzyl ether (I) of the title compound (II) was prepared from 3-hydroxy-6-methylpyridine by sequential benzylation, N-quaternization with PhCOCH<sub>2</sub>Br, and intramol. cyclocondensation. Hydrogenolysis of I did not give II; however, the phenolic form was stabilized by substitution of I with mesomeric withdrawing groups, especially at position 3.

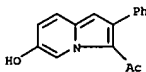
Acylation, formylation, and nitrosation of I gave the deriva. III (R = COMe, COPh, COCO<sub>2</sub>Et, NO, CHO, R<sub>1</sub> = CH<sub>2</sub>Ph) in 60-93% yield. On hydrogenolysis these gave the free phenols III (R<sub>1</sub> = H) in 40-55% yield.

IT 84269-80-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, benzyloxyphenylindolizine by)  
 RN 84269-80-7 CAPLUS  
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-5-(phenylmethoxy)-, bromide (9CI) (CA INDEX NAME)

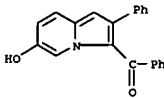


IT 84269-82-9P 84269-83-0P 84269-84-1P

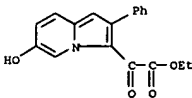
L15 ANSWER 48 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 84269-87-4 CAPLUS  
 CN Ethanone, 1-(6-hydroxy-2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



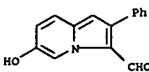
RN 84269-88-5 CAPLUS  
 CN Methanone, (6-hydroxy-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 84269-89-6 CAPLUS  
 CN 3-Indolizineacetic acid, 6-hydroxy-α-oxo-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

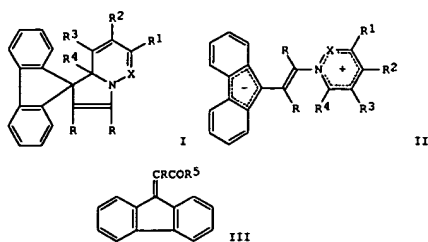


RN 84269-90-9 CAPLUS  
 CN 3-Indolizinecarboxaldehyde, 6-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

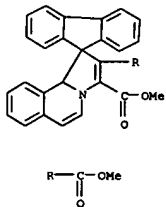


ACCESSION NUMBER: 1982:405566 CAPLUS  
 DOCUMENT NUMBER: 97:5566  
 TITLE: Photochromic systems. Part 3. Singlet oxygen-induced

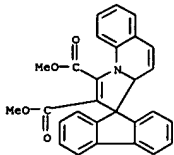
AUTHOR(S): Gross, H.; Duerk, H.  
 CORPORATE SOURCE: Fach. 14 Org. Chem., Univ. Saarlandes, Saarbruecken, 6600, Fed. Rep. Ger.  
 SOURCE: Tetrahedron Letters (1981), 22(47), 4679-82  
 CODEN: TELEAY; ISSN: 0040-4039  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 97:5566  
 GI



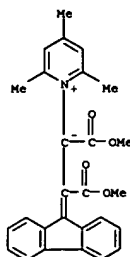
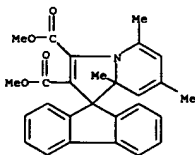
AB Irradiation of eight I [R = CO<sub>2</sub>Me, CN; R<sub>1</sub> = R<sub>3</sub> = H; R<sub>2</sub>, R<sub>4</sub> = H, Me; R<sub>1</sub>R<sub>2</sub>, R<sub>2</sub>R<sub>3</sub> = (CH:CH)<sub>2</sub>] gave the corresponding ring-opened betaines II. Irradiation in the presence of O and the sensitizer hematoporphyrin in MeOH or EtOH gave 28-59% of the fulvenyl esters III (R as before, R<sub>5</sub> = CO<sub>2</sub>Me, OMe, OEt). The reaction may involve dioxetane intermediates.  
 IT 81981-31-9P  
 RL: PREP (Preparation) (formation and photochem. oxidation of, fulvenyl ester by)  
 RN 81981-31-9 CAPLUS  
 CN Pyridinium, 2,4,6-trimethyl-, 2-(9H-fluoren-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropylide (9CI) (CA INDEX NAME)



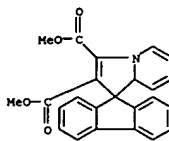
RN 72206-65-6 CAPLUS  
 CN Spiro[9H-fluorene-9,1'-(8'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



RN 81981-28-4 CAPLUS  
 CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 5',7',8'a-trimethyl-, dimethyl ester (9CI) (CA INDEX NAME)

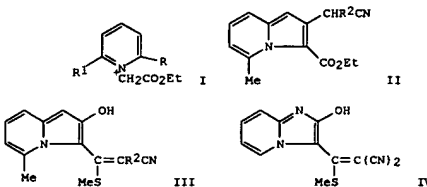


IT 72206-58-7 72206-62-3 72206-65-6  
 81981-28-4  
 RL: RCT (Reactant); RACT (Reactant or reagent) (ring cleavage of, betaine by photochem.)  
 RN 72206-58-7 CAPLUS  
 CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)

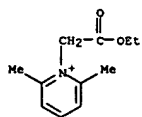


RN 72206-62-3 CAPLUS  
 CN Spiro[9H-fluorene-9,1'-(10'bH)-pyrrolo[2,1-a]isoquinoline]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)

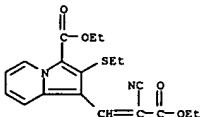
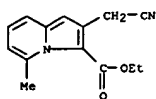
ACCESSION NUMBER: 1982:217667 CAPLUS  
 DOCUMENT NUMBER: 96:217667  
 TITLE: Synthesis of indolizine derivatives and their reactions. V  
 AUTHOR(S): Kurata, Keiji; Awaya, Hiroyoshi; Tominaga, Yoshinori; Matsuda, Yoshiro; Kobayashi, Goro  
 CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 850, Japan  
 SOURCE: Yakugaku Zasshi (1981), 101(11), 980-90  
 CODEN: YKKZAJ; ISSN: 0372-7750  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Japanese  
 OTHER SOURCE(S): CASREACT 96:217667  
 GI



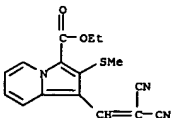
AB 2,6-Dimethyl-1-ethoxycarbonylmethylpyridinium bromide (I, R = R<sub>1</sub> = Me) reacted with (MeS)2C:CR<sub>2</sub>CN (R<sub>2</sub> = CN, CO<sub>2</sub>Et) in the presence of K<sub>2</sub>CO<sub>3</sub> to afford 3-ethoxycarbonylindolizines II and 3-vinylindolizines III. I (R = NH<sub>2</sub>, R<sub>1</sub> = Me, H) reacted with (MeS)2C:CR<sub>2</sub>CN (R<sub>2</sub> = CN, CO<sub>2</sub>Et) in the presence of K<sub>2</sub>CO<sub>3</sub> only to give 3-vinylimidazo[1,2-a]pyridine deriva. e.g. IV. I (R = R<sub>1</sub> = Me) was treated with NaH, CS<sub>2</sub> and then Me<sub>2</sub>SO<sub>4</sub> to afford Me 2-hydroxy-5-methylindolizine-3-dithiocarboxylate. Imidazo[1,2-a]pyridine-3-dithiocarboxylate deriva. were obtained from I (R = NH<sub>2</sub>, R<sub>1</sub> = Me, H). Some reactivities of the dithiocarboxylates with amines or active methylene compound were described.  
 IT 31778-09-3  
 RL: RCT (Reactant); RACT (Reactant or reagent) (cyclization of, with ketenethioacetals, indolizine derivative from)  
 RN 31778-09-3 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

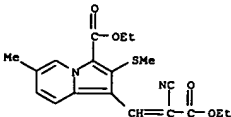
IT 74360-31-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 74360-31-9 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 2-(cyanomethyl)-5-methyl-, ethyl ester (9CI)  
 (CA INDEX NAME)



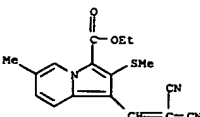
RN 79918-00-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2,2-dicyanoethenyl)-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)



RN 79918-01-7 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-6-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

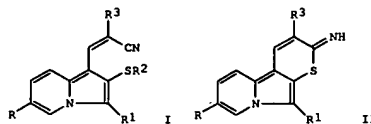


RN 79918-02-8 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2,2-dicyanoethenyl)-6-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



RN 79918-03-9 CAPLUS

L15 ANSWER 51 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1982:35138 CAPLUS  
 DOCUMENT NUMBER: 96:35138  
 TITLE: Synthesis using allylidenedihydropyridines. 9.  
 First  
 AUTHOR(S): preparation of thieno[3,2-a]indolizine derivatives  
 Kakehi, Akikazu; Ito, Suketaka; Ohizumi, Tsuyoshi;  
 Maeda, Toshiaki  
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, 380, Japan  
 SOURCE: Journal of Organic Chemistry (1982), 47(2), 369-71  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 96:35138  
 GI

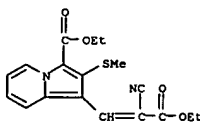


AB The treatment of 2-alkylthio-1-(2-cyanovinyl)indolizines I (R = H, Me,  
 Et;

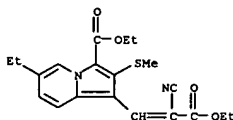
R1 = CO2Et, Bz; R2 = Me, Et; R3 = CO2Et, CN), readily available from  
 1-[2,2-bis(alkylthio)vinyl]-2-picolinium iodides and ethoxymethylene  
 compds. via an allylidenedihydropyridine route, with concentrated HCl  
 afforded

the corresponding thienoindolizine derivs II.

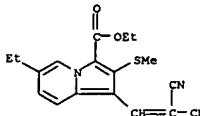
IT 67988-71-0P 67988-73-2P 79918-00-6P  
 79918-01-7P 79918-02-8P 79918-03-9P  
 79918-04-0P 79918-05-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and cyclization of, thienoindolizine derivative from)  
 RN 67988-71-0 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-  
 (methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



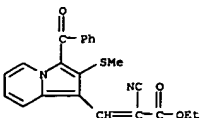
RN 67988-73-2 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-



RN 79918-04-0 CAPLUS  
 CN 3-Indolizinecarboxylic acid,  
 1-(2,2-dicyanoethenyl)-6-ethyl-2-(methylthio)-,  
 ethyl ester (9CI) (CA INDEX NAME)



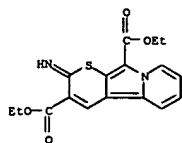
RN 79918-05-1 CAPLUS  
 CN 2-Propenoic acid, 3-[3-benzoyl-2-(methylthio)-1-indoliziny]-2-cyano-  
 ethyl ester (9CI) (CA INDEX NAME)



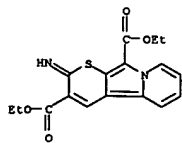
IT 79918-06-2P 79918-07-3P 79918-08-4P  
 79918-09-5P 79918-10-8P 79918-11-9P  
 79918-12-0P 79918-13-1P 79918-14-2P  
 79918-15-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 79918-06-2 CAPLUS  
 CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-, diethyl  
 ester (9CI) (CA INDEX NAME)

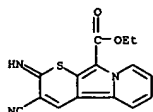


RN 79918-07-3 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

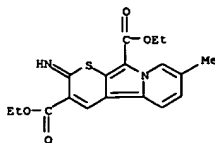


● HCl

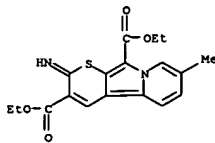
RN 79918-08-4 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-2-imino-, ethyl ester (9CI) (CA INDEX NAME)



RN 79918-09-5 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-7-methyl-, diethyl ester (9CI) (CA INDEX NAME)

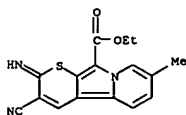


RN 79918-10-8 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 2-imino-7-methyl-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

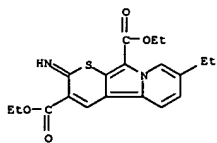


● HCl

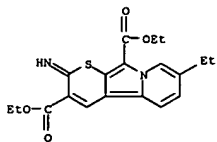
RN 79918-11-9 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-2-imino-7-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 79918-12-0 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 7-ethyl-2-imino-, diethyl ester (9CI) (CA INDEX NAME)

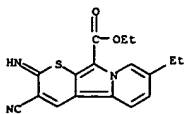


RN 79918-13-1 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-3,10-dicarboxylic acid, 7-ethyl-2-imino-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

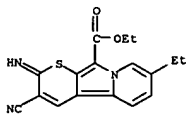


● HCl

RN 79918-14-2 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-7-ethyl-2-imino-, ethyl ester (9CI) (CA INDEX NAME)

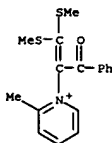


RN 79918-15-3 CAPLUS  
CN 2H-Thiopyrano[3,2-a]indolizine-10-carboxylic acid, 3-cyano-7-ethyl-2-imino-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



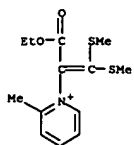
● HCl

IT 59181-92-9  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with (ethoxymethylene)cyanoacetate)  
RN 59181-92-9 CAPLUS  
CN Pyridinium, 1-[1-benzoyl-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

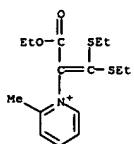


● I<sup>-</sup>

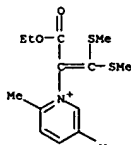
IT 59181-95-2 67988-75-4 79917-93-4  
79917-94-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with (ethoxymethylene)cyanoacetate and malonodinitrile)  
RN 59181-95-2 CAPLUS  
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

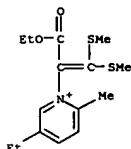
RN 67988-75-4 CAPLUS  
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(ethylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

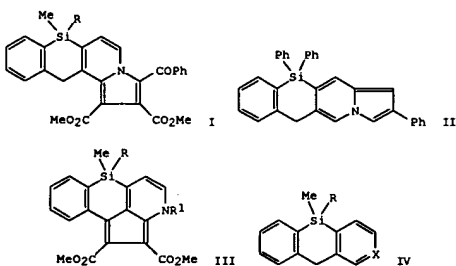
RN 79917-93-4 CAPLUS  
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2,5-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

RN 79917-94-5 CAPLUS  
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-5-ethyl-2-methyl-, iodide (9CI) (CA INDEX NAME)

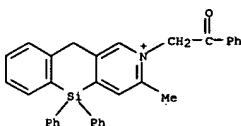
● I<sup>-</sup>

L15 ANSWER 52 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1981:620091 CAPLUS  
DOCUMENT NUMBER: 95:220091  
TITLE: Synthesis of dihydrosilanaphthoindolizines and dihydrosilaazaaceanthrenes  
AUTHOR(S): Prostakov, N. S.; Saxena, N.; Varlamov, A. V.; Fomichev, A. A.  
CORPORATE SOURCE: Patrice Lumumba People's Friendship Univ., Moscow, 117923, USSR  
SOURCE: Journal of Organometallic Chemistry (1981), 218(1), 17-26  
CODEN: JORCAI; ISSN: 0022-328X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 95:220091  
GI

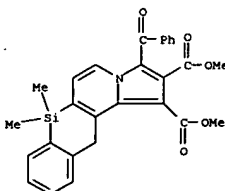


AB Dihydrosilanaphthoindolizines I (R = Me, Ph), II, and dihydrosilaazaaceanthrenes III (R = Me, Ph; R1 = Me, PhCH2) were prepared

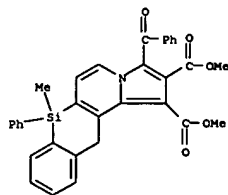
Thus, treating IV (X = N) with BrCH2Br gave IV (X = N+CH2Br Br- which cyclize with MeO2CC.tpbond.CO2Me to give I.  
IT 79905-09-2P  
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of, with di-Me acetylenedicarboxylate)  
RN 79905-09-2 CAPLUS  
CN [1]Benzosilino[3,2-c]pyridinium, 5,10-dihydro-3-methyl-2-(2-oxo-2-phenylethyl)-5,5-diphenyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

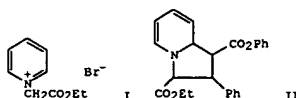
IT 79905-02-5P 79905-03-6P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 79905-02-5 CAPLUS  
CN [1]Benzosilino[2,3-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-7,12-dihydro-7,7-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



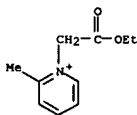
RN 79905-03-6 CAPLUS  
CN [1]Benzosilino[2,3-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-7,12-dihydro-7-methyl-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



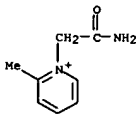
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1981:515212 CAPLUS  
 DOCUMENT NUMBER: 95:115212  
 TITLE: Preparation of tetrahydroindolizines from pyridinium  
 and isoquinolinium ylides  
 AUTHOR(S): Katritzky, Alan R.; Grzeskowiak, Nicholas E.;  
 Alvarez-Builla, Julio  
 CORPORATE SOURCE: Sch. Chem. Sci., Univ. East Anglia, Norwich, NR4 7TJ,  
 UK  
 SOURCE: Journal of the Chemical Society, Perkin Transactions  
 1: Organic and Bio-Organic Chemistry (1972-1999)  
 (1981), (4), 1180-5  
 CODEN: JCPRB4; ISSN: 0300-922X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 95:115212  
 GI



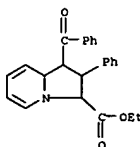
AB Carbonyl- and nitrile-stabilized pyridinium and cyclic azonium  
 methylides,  
 prepared by treatment of the heterocycle with the appropriate active  
 halogen  
 compound, condensed with chalcones to give tetrahydroindolizines and  
 analogous fused pyrrolidines. E.g., treatment of I, prepared (92%) by  
 addition  
 of BrCH<sub>2</sub>CO<sub>2</sub>Et to pyridine (EtOAc, room temperature, overnight), with  
 PhCOCH:CHPh  
 (NaOEt/EtOH, 25-60°, 30 min) gave 90% II. The reaction stereochem.  
 is discussed in terms of product IR and <sup>13</sup>C and <sup>1</sup>H NMR spectra.  
 IT 55814-02-3P 78572-44-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and cyclocondensation reactions of, with chalcones)  
 RN 55814-02-3 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX  
 NAME)

● Br<sup>-</sup>

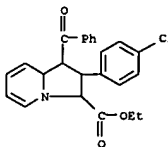
RN 78572-44-8 CAPLUS  
 CN Pyridinium, 1-(2-amino-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX  
 NAME)

● Cl<sup>-</sup>

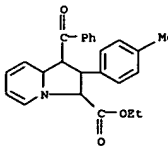
IT 78572-55-1P 78572-56-2P 78572-57-3P  
 78572-58-4P 78572-59-5P 78572-60-8P  
 78572-61-9P 78572-62-0P 78572-63-1P  
 78572-64-2P 78572-65-3P 78572-66-4P  
 78572-67-5P 78572-68-6P 78572-69-7P  
 78572-70-0P 78572-71-1P 78572-72-2P  
 78572-73-3P 78572-74-4P 78572-75-5P  
 78572-76-6P 78572-77-7P 78572-78-8P  
 78572-79-9P 78572-80-5P 78592-93-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 78572-55-1 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-2-phenyl-,  
 ethyl ester (9CI) (CA INDEX NAME)



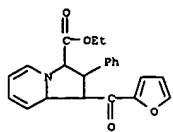
RN 78572-56-2 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-benzoyl-2-(4-chlorophenyl)-1,2,3,8a-  
 tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



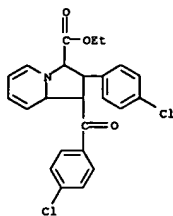
RN 78572-57-3 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-2-(4-  
 methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



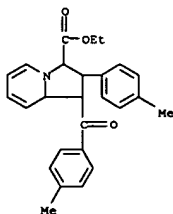
RN 78572-58-4 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-furanylcabonyl)-1,2,3,8a-tetrahydro-2-  
 phenyl-, ethyl ester (9CI) (CA INDEX NAME)



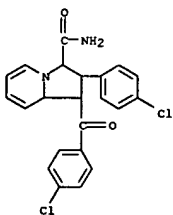
RN 78572-59-5 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(4-chlorobenzoyl)-2-(4-chlorophenyl)-1,2,3,8a-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



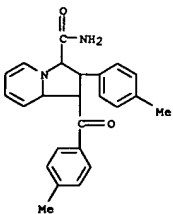
RN 78572-60-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(4-methylbenzoyl)-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



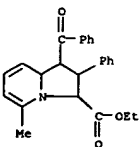
RN 78572-61-9 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



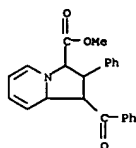
RN 78572-65-3 CAPLUS  
CN 3-Indolizinecarboxamide, 1-(4-methylbenzoyl)-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)



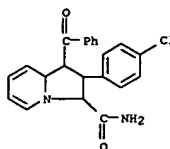
RN 78572-66-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-5-methyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



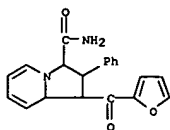
RN 78572-67-5 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-acetyl-1,2,3,10b-tetrahydro-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



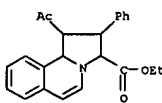
RN 78572-62-0 CAPLUS  
CN 3-Indolizinecarboxamide, 1-benzoyl-2-(4-chlorophenyl)-1,2,3,8a-tetrahydro- (9CI) (CA INDEX NAME)



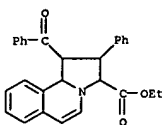
RN 78572-63-1 CAPLUS  
CN 3-Indolizinecarboxamide, 1-(2-furanylcarbonyl)-1,2,3,8a-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)



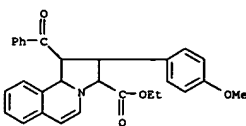
RN 78572-64-2 CAPLUS  
CN 3-Indolizinecarboxamide, 1-(4-chlorobenzoyl)-2-(4-chlorophenyl)-1,2,3,8a-tetrahydro- (9CI) (CA INDEX NAME)



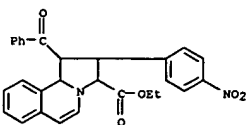
RN 78572-68-6 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-1,2,3,10b-tetrahydro-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 78572-69-7 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-1,2,3,10b-tetrahydro-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

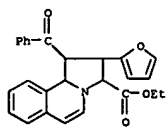


RN 78572-70-0 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-1,2,3,10b-tetrahydro-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

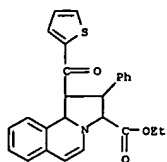


RN 78572-71-1 CAPLUS

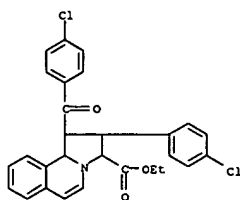
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-benzoyl-2-(2-furanyl)-1,2,3,10b-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



RN 78572-72-2 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1,2,3,10b-tetrahydro-2-phenyl-1-(2-thienylcarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)

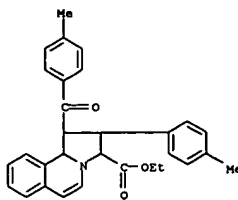


RN 78572-73-3 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1-(4-chlorobenzoyl)-2-(4-chlorophenyl)-1,2,3,10b-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)

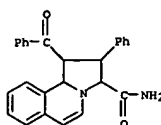


RN 78572-74-4 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxylic acid, 1,2,3,10b-tetrahydro-1-(4-methylbenzoyl)-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

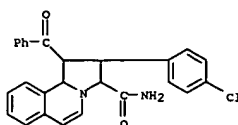
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 78572-75-5 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-benzoyl-1,2,3,10b-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)

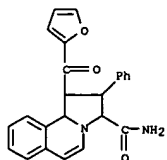


RN 78572-76-6 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-benzoyl-2-(4-chlorophenyl)-1,2,3,10b-tetrahydro- (9CI) (CA INDEX NAME)

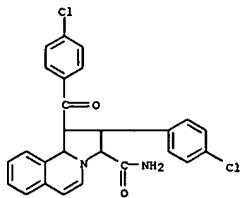


RN 78572-77-7 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1-(2-furanylcarbonyl)-1,2,3,10b-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)

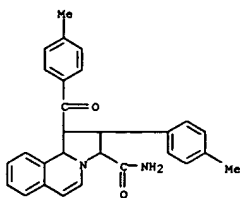
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 78572-78-8 CAPLUS  
 CN 3-Indolizine-5,6,7,8-d4-carboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-8a-d-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)

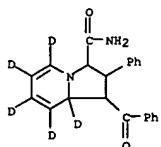


RN 78572-79-9 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-3-carboxamide, 1,2,3,10b-tetrahydro-1-(4-methylbenzoyl)-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)

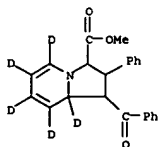


RN 78572-85-7 CAPLUS  
 CN 3-Indolizine-5,6,7,8-d4-carboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-8a-d-2-phenyl- (9CI) (CA INDEX NAME)

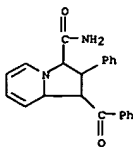
L15 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 78592-93-5 CAPLUS  
 CN 3-Indolizine-5,6,7,8-d4-carboxylic acid, 1-benzoyl-1,2,3,8a-tetrahydro-8a-d-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)

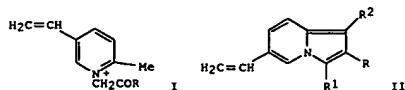


IT 78572-54-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, by cyclocondensation of chalcone with (carbamoylmethyl)pyridinium bromide)  
 RN 78572-54-0 CAPLUS  
 CN 3-Indolizinecarboxamide, 1-benzoyl-1,2,3,8a-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)

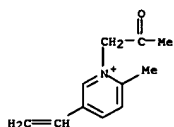




L15 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1981:208644 CAPLUS  
 DOCUMENT NUMBER: 94:208644  
 TITLE: Synthesis and properties of 2-R-6-vinylindolizines  
 AUTHOR(S): Kutrov, G. P.; Kovalenko, N. V.  
 CORPORATE SOURCE: Kiev. Gos. Univ., Kiev, USSR  
 SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1981), 47(1), 92-4  
 CODEN: UKZHAI; ISSN: 0041-6045  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 94:208644  
 GI



AB Treatment of 2-methyl-5-vinylpyridine with BrCH<sub>2</sub>COR (R = Me, Ph) gave pyridinium salts I in 74 and 72% yield, resp.; I were cyclized with NaOH to give II (R<sub>1</sub> = R<sub>2</sub> = H) in 70 and 52% yield, resp. Treatment of II (R = Me, R<sub>1</sub> = R<sub>2</sub> = H) (III) with HClO<sub>4</sub> gave 81.6% 2-methyl-6-vinylindolizinium perchlorate. III was converted to 55-73% II (R = Me, R<sub>2</sub> = H, R<sub>1</sub> = CHO, CH<sub>3</sub>, NO; R<sub>1</sub> = R<sub>2</sub> = CHO) by formylation, nitrosation and treatment with P(O)Cl<sub>3</sub> and NaSH.  
 IT 1439-22-1P 31030-03-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclocondensation of, vinylindolizines from)  
 RN 1439-22-1 CAPLUS  
 CN Pyridinium, 5-ethenyl-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

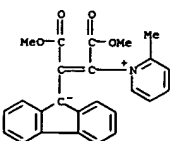
RN 31030-03-2 CAPLUS  
 CN Pyridinium, 5-ethenyl-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1981:123108 CAPLUS  
 DOCUMENT NUMBER: 94:123108  
 TITLE: Photochromic spiro[1,8-a-dihydroindolizines] and their  
 use in radiation-sensitive materials  
 INVENTOR(S): Duerr, Heinz; Hauck, Gerhard  
 PATENT ASSIGNEE(S): Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 29 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2906193	A1	19800828	DE 1979-2906193	19790217
DE 2906193	C2	19910523		

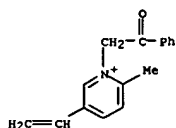
 PRIORITY APPL. INFO.: DE 1979-2906193 A 19790217

GI For diagram(s), see printed CA Issue.  
 AB Photochromic compds. (I; R = C2-5 alkoxy-carbonyl, acyl derived from Cl-4 carboxylic acid or aromatic acid, CN; R<sub>1</sub> = H, R; R<sub>2</sub> = H, Cl-4 alkyl, or with  
 with X (when X = CH) forms a fused benzene ring; R<sub>3</sub> = Cl-4 alkyl, Cl-4 alkoxy, or with R<sub>4</sub> forms a fused benzene ring; R<sub>4</sub> = H or with R<sub>3</sub> forms a fused benzene ring; X = CH, CR<sub>5</sub> (R<sub>5</sub> = Cl-4 alkyl), N, or with R<sub>2</sub> forms a fused benzene ring; X<sub>1</sub> = CH, CMe, N; Z = atoms necessary to complete a dibenzocyclopentadiene, benzodiphenylcyclopentadiene, tetraphenylcyclopentadiene, or dibenzocyclohexa-2,5-dien-4-one ring) were prepared and used in radiation-sensitive materials. Thus, 2,3-bis(methoxycarbonyl)spiro[cyclopropen-1,9'-fluorene] [39500-48-6] was  
 stirred with pyridine [110-86-1] in the absence of light to give II [ 72206-58-7]. Ten other I were similarly prepared Optical properties of films containing I are described.  
 IT 76874-87-8  
 RL: USES (Uses)  
 (absorption maximum and kinetics of thermal cyclization of)  
 RN 76874-87-8 CAPLUS  
 CN Pyridinium, 1-[2-(9H-fluoren-9-yl)-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



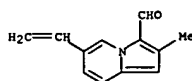
IT 72206-58-7P 72206-63-4P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and photochromic properties of)  
 RN 72206-58-7 CAPLUS

L15 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

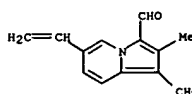


● Br<sup>-</sup>

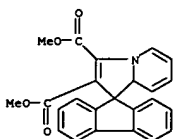
IT 77652-50-7P 77652-53-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 77652-50-7 CAPLUS  
 CN 3-Indolizinecarboxaldehyde, 6-ethenyl-2-methyl- (9CI) (CA INDEX NAME)



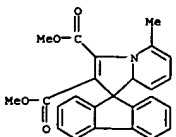
RN 77652-53-0 CAPLUS  
 CN 1,3-Indolizinedicarboxaldehyde, 6-ethenyl-2-methyl- (9CI) (CA INDEX NAME)



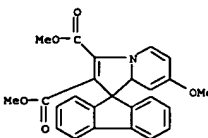
L15 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Spiro[9H-fluorene-9,1'(8'ah)-indolizine]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



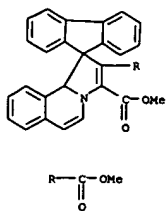
RN 72206-63-4 CAPLUS  
 CN Spiro[9H-fluorene-9,1'(8'ah)-indolizine]-2',3'-dicarboxylic acid, 5'-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



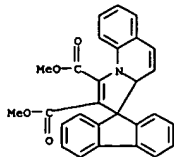
IT 72206-60-1P 72206-62-3P 72206-65-6P  
 72206-66-7P 72206-68-9P 76874-84-5P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)  
 RN 72206-60-1 CAPLUS  
 CN Spiro[9H-fluorene-9,1'(8'ah)-indolizine]-2',3'-dicarboxylic acid, 7'-methoxy-, dimethyl ester (9CI) (CA INDEX NAME)



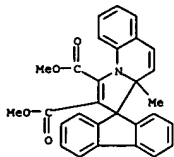
RN 72206-62-3 CAPLUS  
 CN Spiro[9H-fluorene-9,1'(10'bh)-pyrrolo[2,1-a]isoquinoline]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



RN 72206-65-6 CAPLUS  
CN Spiro[9H-fluorene-9,3'(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)

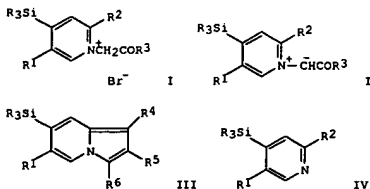


RN 72206-66-7 CAPLUS  
CN Spiro[9H-fluorene-9,3'(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, 3'a-methyl-, dimethyl ester (9CI) (CA INDEX NAME)

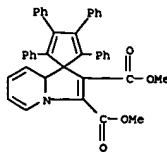


RN 72206-68-9 CAPLUS  
CN Spiro[2,4-cyclopentadiene-1,1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 2,3,4,5-tetraphenyl-, dimethyl ester (9CI) (CA INDEX NAME)

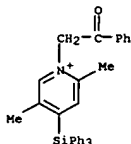
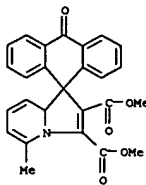
L15 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1980:639513 CAPLUS  
DOCUMENT NUMBER: 93:239513  
TITLE:  $\gamma$ -Trimethylsilyl(triphenylsilyl)pyridines in the synthesis of silicon-containing pyridinium ylides and indolizines  
AUTHOR(S): Prostakov, N. S.; Varlamov, A. V.; Saksena, N.; Savina, A. A.; Raj, G. Datta; Maslova, L. V.  
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lomonosova, Moscow, USSR  
SOURCE: Khimiya Geterotsiklicheskih Soedinenii (1980), (7), 965-8  
CODEN: KGSSAQ; ISSN: 0453-8234  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
OTHER SOURCE(S): CASREACT 93:239513  
GI



AB Pyridinium ylides and indolizines I, II (R = Me, Ph; R1, R2 = H, Me; R3 = Ph, OEt), III (R4 = R5 = CO2Me, R6 = CO2Ph, CO2Et; R4 = R6 = H, R5 = Ph) were prepared in 14-90% yields from IV. Thus, refluxing IV (R = Me, R1 = R2 = H) with PhCOCH2Br in benzene gave 40% I (R = Me, R1 = R2 = H, R3 = Ph) which on treatment with 40% aqueous KOH gave 90% corresponding II.  
IT 67433-77-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and dehydrobromination of)  
RN 67433-77-6 CAPLUS  
CN Pyridinium, 3,6-dimethyl-1-(2-oxo-2-phenylethyl)-4-(triphenylsilyl)-, bromide (9CI) (CA INDEX NAME)

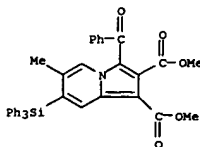


RN 76874-84-5 CAPLUS  
CN Spiro[anthracene-9(10H),1'(8'aH)-indolizine]-2',3'-dicarboxylic acid, 5'-methyl-10-oxo-, dimethyl ester (9CI) (CA INDEX NAME)

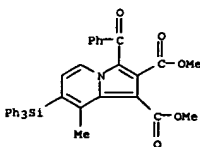


● Br<sup>-</sup>

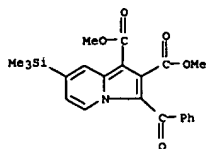
IT 67433-81-2P 67433-82-3P 75746-59-7P  
75746-60-0P 75758-36-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 67433-81-2 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-6-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



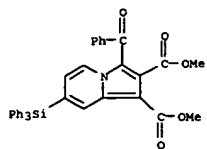
RN 67433-82-3 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-8-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



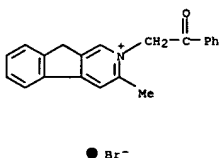
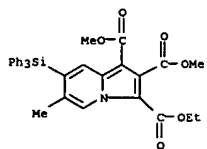
RN 75746-59-7 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-7-(trimethylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



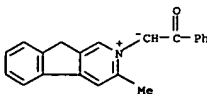
RN 75746-60-0 CAPLUS  
CN 1,2-indolizinedicarboxylic acid, 3-benzoyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



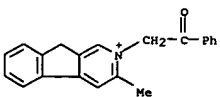
RN 75758-36-0 CAPLUS  
CN 1,2,3-indolizinetricarboxylic acid, 6-methyl-7-(triphenylsilyl)-, 3-ethyl 1,2-dimethyl ester (9CI) (CA INDEX NAME)



IT 73638-99-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with benzoyl chloride)  
RN 73638-99-0 CAPLUS  
CN 9H-indeno[2,1-c]pyridinium, 3-methyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

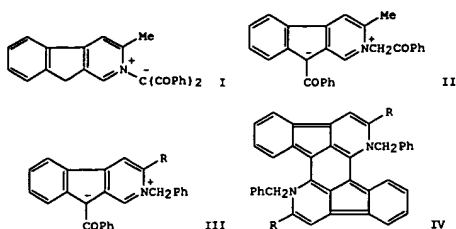


IT 34937-56-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction with bases, ylides from)  
RN 34937-56-9 CAPLUS  
CN 9H-indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

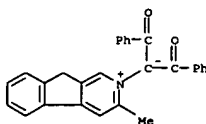


IT 73639-00-6P 73639-03-9P 75561-28-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 73639-00-6 CAPLUS  
CN 9H-indeno[2,1-c]pyridinium, 3-methyl-, 1-benzoyl-2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

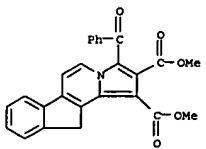
L15 ANSWER 57 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1980:620562 CAPLUS  
Correction of: 1980:407962  
93:220562  
DOCUMENT NUMBER: Correction of: 93:7962  
TITLE: Transformation of quaternary salts of 2- and 4-azafluorenes by bases  
AUTHOR(S): Prostakov, N. S.; Galvoronskaya, L. A.; Anastasi, R. I.; Kamara Maiga, S. M.; Savina, A. A.; Murugova, L. A.; Zakharov, P. I.  
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lumumby, Moscow, 117923, USSR  
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1979), (11), 1514-23  
CODEN: KGSSAQ; ISSN: 0453-8234  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
GI



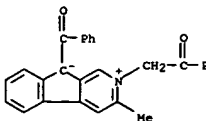
AB Quaternary ammonium salts of 2-azafluorene, 3-methyl-2-azafluorene, and 4-azafluorene with PhCOCH2Br and PhCH2Br were prepared. Treatment of N-phenacyl-3-methyl-2-azafluorene ammonium bromide with K2CO3 and then with BzCl gave the azafluorene ylides I and II. Analogous ylides were obtained from N-phenacyl ammonium salts of 2-azafluorene and 4-azafluorene. N-Benzyl ammonium bromides of 2-azafluorene and 3-methyl-2-azafluorene were treated with BzCl in CHCl3 containing Et3N to give ylides III (R = H, Me) and diazafluorenofluorenes IV (R = H, Me).  
IT 34937-56-9DP, deuterated  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and NMR spectrum of)  
RN 34937-56-9 CAPLUS  
CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



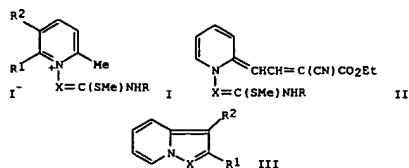
RN 73639-03-9 CAPLUS  
CN 11H-indeno[1,2-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 75561-28-3 CAPLUS  
CN 9H-Indeno[2,1-c]pyridinium, 9-benzoyl-3-methyl-2-(2-oxo-2-phenylethyl)-, inner salt (9CI) (CA INDEX NAME)

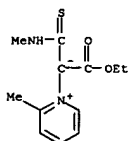


L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1980:532417 CAPLUS  
 DOCUMENT NUMBER: 93:132417  
 TITLE: Synthesis using allylidenedihydropyridines. Part 7. Preparation and some reactions of vinyl-substituted 2-aminopyrazolo[1,5-a]pyridines and 2-aminoindolizines  
 AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka; Watanabe, Kozo; Ono, Tadashi; Miyazima, Tomio  
 CORPORATE SOURCE: Dep. Ind. Chem., Shinshu Univ., Nagano, 380, Japan  
 SOURCE: Journal of Chemical Research, Synopses (1980), (1), 18-19  
 CODEN: JRPSCD; ISSN: 0308-2342  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 93:132417  
 GI

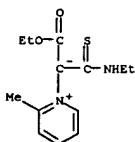


AB The title compds. were prepared from the pyridinium salts I (R = Me, Et, R1 = R2 = H, X = N, C(CO2Et); R = Me, Et, R1 = Me, R2 = H, X = N; R = Me, Et, R1R2 = benzo, X = N; R = Ph, R1 = R2 = H, X = N) by reaction with EtOCH:C(CN)CO2Et. E.g. the allylidene pyridine II (X = N, R = Me), prepared from I (R = Me, R1 = R2 = H, X = N), underwent intramol. cyclization by refluxing in PhMe to give pyrazolopyridine III [X = N, R1 = NHMe, R2 = CH:C(CN)CO2Et]. The intramol. cyclization of II [X = C(CO2Et), R = Me] in xylene gave III [X = C(CO2Et), R1 = NHMe, R2 = CH:C(CN)CO2Et] together with III [X = C(CO2Et), R1 = NHMe, R2 = H] and III [X = C(CO2Et), R1 = SMe, R2 = CH:C(CN)CO2Et].  
 IT 74820-49-8P 74820-50-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and condensation reaction of, with Et (ethoxymethylene)cynoacetate)  
 RN 74820-49-8 CAPLUS  
 CN Pyridinium,  
 1-[1-(ethoxycarbonyl)-2-(methylamino)-2-(methylthio)ethenyl]-2-methyl-, iodide, (Z)- (9CI) (CA INDEX NAME)  
 Double bond geometry as shown.

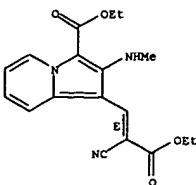
L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 74820-40-9 CAPLUS  
 CN Pyridinium, 2-methyl-, 1-(ethoxycarbonyl)-2-(ethylamino)-2-thioxoethylide (9CI) (CA INDEX NAME)

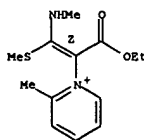


IT 74820-69-2P 74820-70-5P 74820-71-6P  
 74820-72-7P 74820-74-9P 74820-77-2P  
 74820-78-3P 74820-86-3P 74820-87-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 74820-69-2 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylamino)-, ethyl ester, (E)- (9CI) (CA INDEX NAME)  
 Double bond geometry as shown.



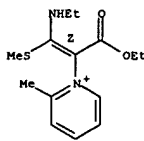
RN 74820-70-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 2-(methylamino)-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



• I<sup>-</sup>

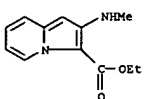
RN 74820-50-1 CAPLUS  
 CN Pyridinium,  
 1-[1-(ethoxycarbonyl)-2-(ethylamino)-2-(methylthio)ethenyl]-2-methyl-, iodide, (Z)- (9CI) (CA INDEX NAME)  
 Double bond geometry as shown.



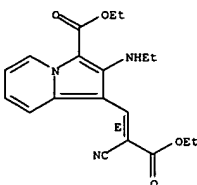
• I<sup>-</sup>

IT 74820-39-6P 74820-40-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and S-methylation of)  
 RN 74820-39-6 CAPLUS  
 CN Pyridinium, 2-methyl-,  
 1-(ethoxycarbonyl)-2-(methylamino)-2-thioxoethylide (9CI) (CA INDEX NAME)

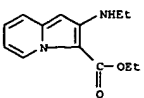
L15 ANSWER 58 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



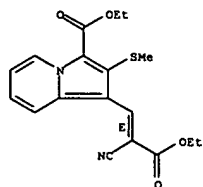
RN 74820-71-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(ethylamino)-, ethyl ester, (E)- (9CI) (CA INDEX NAME)  
 Double bond geometry as shown.



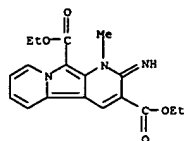
RN 74820-72-7 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 2-(ethylamino)-, ethyl ester (9CI) (CA INDEX NAME)



RN 74820-74-9 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylthio)-, ethyl ester, (E)- (9CI) (CA INDEX NAME)  
 Double bond geometry as shown.

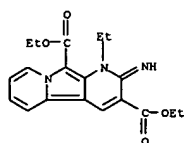


RN 74820-77-2 CAPLUS  
CN Pyrido[3,2-a]indolizine-3,10-dicarboxylic acid, 1,2-dihydro-2-imino-1-methyl-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



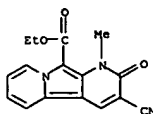
● HCl

RN 74820-78-3 CAPLUS  
CN Pyrido[3,2-a]indolizine-3,10-dicarboxylic acid, 1-ethyl-1,2-dihydro-2-imino-, diethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

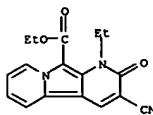


● HCl

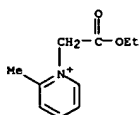
RN 74820-86-3 CAPLUS  
CN Pyrido[3,2-a]indolizine-10-carboxylic acid, 3-cyano-1,2-dihydro-1-methyl-2-



RN 74820-87-4 CAPLUS  
CN Pyrido[3,2-a]indolizine-10-carboxylic acid, 3-cyano-1-ethyl-1,2-dihydro-2-oxo-, ethyl ester (9CI) (CA INDEX NAME)

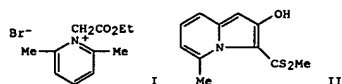


IT 58963-28-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(N-acylation of, by organic isothiocyanates)  
RN 58963-28-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)



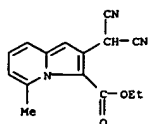
● Cl<sup>-</sup>

L15 ANSWER 59 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1980:471509 CAPLUS  
DOCUMENT NUMBER: 93:71509  
TITLE: Syntheses of indolizine derivatives and their reactions  
AUTHOR(S): Kurata, Keiji; Tajima, Yasushi; Awaya, Hiroyoshi; Tominaga, Yoshinori; Matsuda, Yoshiro; Kobayashi, Goro  
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan  
SOURCE: Fukusokan Kagaku Toronkai Koen Yoshishu, 12th (1979), 106-10. Kitasato Daigaku Yakugakubu: Tokyo, Japan.  
CODEN: 42VCA9  
DOCUMENT TYPE: Conference  
LANGUAGE: Japanese  
GI

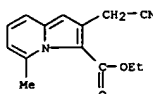


AB The reactions of pyrimidinium and thiazolium N-ylides with CS<sub>2</sub> and ketene thioacetals, e.g., (MeS)C(CN)C(CN)<sub>2</sub>, were investigated. Thus, treating I with NaH, CS<sub>2</sub> and then Me<sub>2</sub>SO<sub>4</sub> gave II.

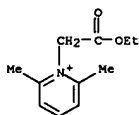
IT 64995-32-0P 74360-31-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 64995-32-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(dicyanomethyl)-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 74360-31-9 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(cyanomethyl)-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)

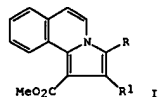


IT 31778-09-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with carbon disulfide and with ketenethioacetal)  
RN 31778-09-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

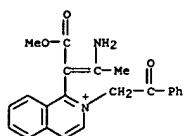


● Br<sup>-</sup>

L15 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1980:407981 CAPLUS  
 DOCUMENT NUMBER: 93:7981  
 TITLE: New routes to the pyrrolo[2,1-a]isoquinoline system  
 AUTHOR(S): Iwao, Masatomo; Kuraishi, Tsukasa  
 CORPORATE SOURCE: Fac. Lib. Arts, Nagasaki Univ., Nagasaki, 852, Japan  
 SOURCE: Bulletin of the Chemical Society of Japan (1980),  
 53(1), 297-8  
 CODEN: BCSJAB; ISSN: 0009-2673  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 93:7981  
 GI

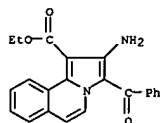


AB Derivs. of the title compound I (R = Bz, Ac, p-O2NC6H4, R1 = Me; R = H, R1 = Ph, Me; R = Bz, R1 = NH2) were prepared from Me  $\alpha$ -(1-isoquinolyl)- $\beta$ -aminocrotonate and Et  $\alpha$ -(1-isoquinolyl)- $\beta$ -amino- $\beta$ -ethoxyacrylate in moderate to good yields via cyclization of their quaternary salts.  
 IT 73813-15-7P 73813-16-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 73813-15-7 CAPLUS  
 CN Isoquinolinium, 1-[2-amino-1-(methoxycarbonyl)-1-propenyl]-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

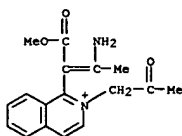


● Br<sup>-</sup>  
 RN 73813-16-8 CAPLUS  
 CN Isoquinolinium,  
 1-[2-amino-1-(methoxycarbonyl)-1-propenyl]-2-(2-oxopropyl)-,  
 bromide (9CI) (CA INDEX NAME)

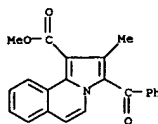
L15 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



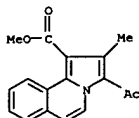
L15 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Br<sup>-</sup>  
 IT 73813-17-9P 73813-18-0P 73813-21-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 73813-17-9 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-benzoyl-2-methyl-, methyl ester (9CI) (CA INDEX NAME)

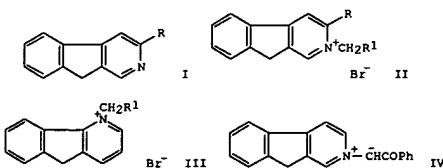


RN 73813-18-0 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 3-acetyl-2-methyl-, methyl ester (9CI) (CA INDEX NAME)

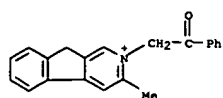


RN 73813-21-5 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1-carboxylic acid, 2-amino-3-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)

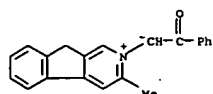
L15 ANSWER 61 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1980:407962 CAPLUS  
 DOCUMENT NUMBER: 93:7962  
 TITLE: Transformation of quaternary salts of 2- and 4-azafluorenes by bases  
 AUTHOR(S): Prostakov, N. S.; Galvoronskaya, L. A.; Anastasi, R. I.; Kamara Maiga, S. M.; Savina, A. A.; Murugova, L. A.; Zakharov, P. I.  
 CORPORATE SOURCE: Univ. Druzhby Nar. im. Lumumby, Moscow, 117923, USSR  
 SOURCE: Khimiya Geterotsiklichesikh Soedinenii (1979), (11), 1514-23  
 CODEN: KGSSAQ; ISSN: 0453-8234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 93:7962  
 GI



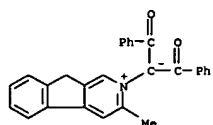
AB Treatment of azafluorenes I (R = H, Me) with R1CH2Br (R1 = Bz, Ph) gave 90-94 II; III were prepared similarly. Treatment of II (R = Me, R1 = Bz) with K2CO3 gave the ylide IV, which when treated with BzCl and K2CO3 gave 3-methyl-2-azafluorene dibenzoylmethylide and N-phenacyl-3-methyl-9-benzoylindene[2,3-c]pyridinium. Reaction of II (R = Me, R1 = Bz) (V) with BzCl in the presence of Et3N gave N-phenacyl-9-benzoylindene[2,3-c]pyridinium. V and di-Me acetylenedicarboxylate gave 3-benzoyl-1,2-dicarbomethoxyindeno[1,2-g]indolizine. Similar reactions were observed with other II and III.  
 IT 34937-56-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with bases)  
 RN 34937-56-9 CAPLUS  
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

IT 73638-99-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with benzoyl chloride)  
 RN 73638-99-0 CAPLUS  
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-, 2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)

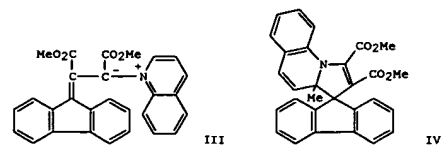
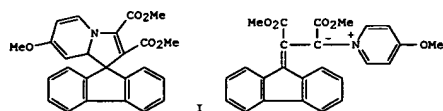


IT 73639-00-6P 73639-03-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 73639-00-6 CAPLUS  
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-, 1-benzoyl-2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)

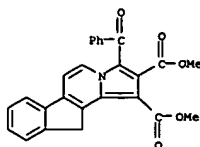


RN 73639-03-9 CAPLUS  
 CN 11H-Indeno[1,2-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-, dimethyl ester (9CI) (CA INDEX NAME)

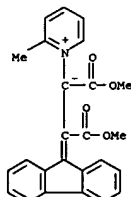
L15 ANSWER 62 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1980:119656 CAPLUS  
 DOCUMENT NUMBER: 92:119656  
 TITLE: 1,8a-Dihydroindolizines as components of new photochromic systems  
 AUTHOR(S): Hauck, G.; Durr, H.  
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Saarbruecken, Saarbruecken, D-6600, Fed. Rep. Ger.  
 SOURCE: Angewandte Chemie (1979), 91(12), 1010-11  
 CODEN: ANCEAD; ISSN: 0044-8249  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI



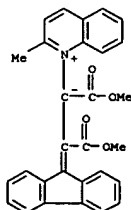
AB New photochromic systems based on the 1,8a-dihydroindolizine structure are described. The photochromism of these compds. involves heterolytic bond breaking in which the electron-acceptor atom can be either a heteroatom or a substituted C atom. For example, the reactions of spiro[cyclopropene-1,9'-fluorene]-2,3-dicarboxylic acid di-Me ester with 4-methoxypyridine gave I via the intermediate II. I was characterized by IR, <sup>1</sup>H NMR, and mass spectra. The cyclization is regioselective but the alternative possibility for ring closure can be forced, e.g., by blocking a position through benzoannellation, as in III which is converted to IV. The reactions of II and III to give I and IV, resp., are 1st-order and the rate consts. depend on the solvent polarity and also on mesomeric and inductive effects of the substituents. Especially noticeable is the destabilization of the pos. charge by the annellated benzene ring. However, carbanion intermediates in which there are no electron-acceptor substituents are also unstable and their cyclization reactions have drastically reduced rate consts. The activation parameters of thermal cyclization of the analog of II without the MeO group on pyridine are: ΔG<sup>‡</sup> = 6.3 kcal/mol, EA = 15.9 kcal/mol, ΔS<sup>‡</sup> = -32 cal K<sup>-1</sup> mol<sup>-1</sup>, and k = 4.88 × 10<sup>-3</sup> (k = 11.0 × 10<sup>-3</sup> for II). The long-wavelength absorption maximum of the intermediates show a remarkably strong hypsochromic effect, an indication that intramol. charge-transfer causes the color of the betaine.



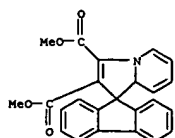
IT 72206-52-1P 72206-55-4P  
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (formation and cyclization of)  
 RN 72206-52-1 CAPLUS  
 CN Pyridinium, 1-[2-(9H-fluorene-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



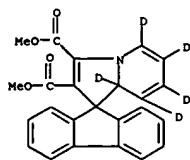
RN 72206-55-4 CAPLUS  
 CN Quinolinium, 1-[2-(9H-fluorene-9-ylidene)-3-methoxy-1-(methoxycarbonyl)-3-oxopropyl]-2-methyl-, inner salt (9CI) (CA INDEX NAME)



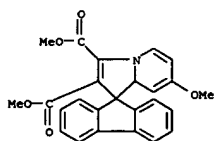
IT 72206-58-7 72206-59-8 72206-60-1  
 72206-61-2 72206-62-3 72206-63-4  
 72206-65-6 72206-66-7 72206-68-9  
 72206-69-0  
 RL: PROC (Process)  
 (photochromism of)  
 RN 72206-58-7 CAPLUS  
 CN Spiro[9H-fluorene-9,1'-(8'ah)-indolizine]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



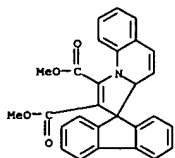
RN 72206-59-8 CAPLUS  
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-5',6',7',8',8'a-d5-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



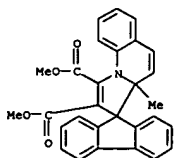
RN 72206-60-1 CAPLUS  
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 7'-methoxy-, dimethyl ester (9CI) (CA INDEX NAME)



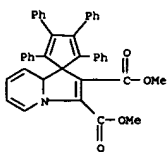
RN 72206-61-2 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-2,3-dicarboxylic acid, 1,10b-dihydro-1,1-diphenyl-, dimethyl ester (9CI) (CA INDEX NAME)



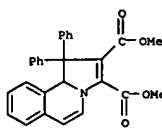
RN 72206-66-7 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, 3'a-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



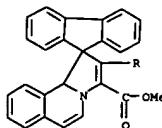
RN 72206-68-9 CAPLUS  
CN Spiro[2,4-cyclopentadiene-1,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 2,3,4,5-tetraphenyl-, dimethyl ester (9CI) (CA INDEX NAME)



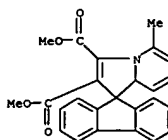
RN 72206-69-0 CAPLUS  
CN Spiro[anthracene-9(10H),1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 10-oxo-, dimethyl ester (9CI) (CA INDEX NAME)



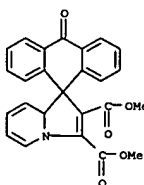
RN 72206-62-3 CAPLUS  
CN Spiro[9H-fluorene-9,1'-(10'bH)-pyrrolo[2,1-a]isoquinoline]-2',3'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)



RN 72206-63-4 CAPLUS  
CN Spiro[9H-fluorene-9,1'-(8'aH)-indolizine]-2',3'-dicarboxylic acid, 5'-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 72206-65-6 CAPLUS  
CN Spiro[9H-fluorene-9,3'-(3'aH)-pyrrolo[1,2-a]quinoline]-1',2'-dicarboxylic acid, dimethyl ester (9CI) (CA INDEX NAME)

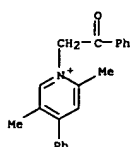




L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1980:76245 CAPLUS  
 DOCUMENT NUMBER: 92:76245  
 TITLE: Use of 2,5-dimethyl-4-phenyl(benzyl)pyridines in syntheses of substituted indolizines  
 AUTHOR(S): Frostakov, N. S.; Gaivoronskaya, L. A.; Anastasi, R. I.  
 CORPORATE SOURCE: Univ. Druzhby Nar. im. Lumumby, Moscow, USSR  
 SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (1979), 22(10), 1197-201  
 CODEN: IVUKAR; ISSN: 0579-2991  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 92:76245  
 GI

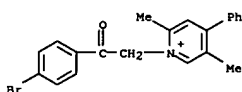
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Reaction of pyridines I (R = Ph, benzyl) with R1C6H4COCH2Br (R1 = m-O2N, p-Br) gave 85-99% II, which were cyclized to give 24-70% phenylindolizines  
 III. II and di-Me acetylenedicarboxylate gave 14.3-23% IV. V were prepared  
 in 28.5-72% yield by reaction of II with p-O2NC6H4COCl.  
 IT 54485-87-9P 59647-41-5P 72768-09-3P  
 72768-10-6P 72768-11-7P 72768-12-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reactions of)  
 RN 54485-87-9 CAPLUS  
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI) (CA INDEX NAME)

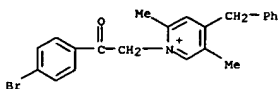


RN 59647-41-5 CAPLUS  
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

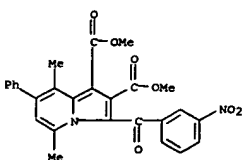
L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 72768-12-8 CAPLUS  
 CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-2,5-dimethyl-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

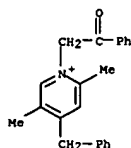


IT 72768-17-3P 72768-18-4P 72768-19-5P  
 72768-20-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 72768-17-3 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 5,8-dimethyl-3-(3-nitrobenzoyl)-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)

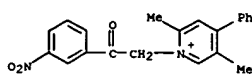


RN 72768-18-4 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 5,8-dimethyl-3-(3-nitrobenzoyl)-7-(phenylmethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

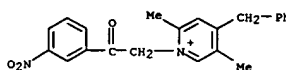
L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 72768-09-3 CAPLUS  
 CN Pyridinium, 2,5-dimethyl-1-(2-(3-nitrophenyl)-2-oxoethyl)-4-phenyl-, bromide (9CI) (CA INDEX NAME)

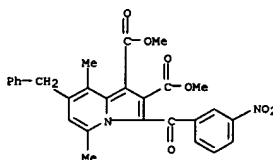


RN 72768-10-6 CAPLUS  
 CN Pyridinium, 2,5-dimethyl-1-[2-(3-nitrophenyl)-2-oxoethyl]-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)

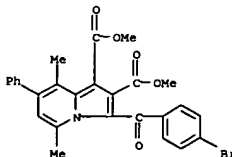


RN 72768-11-7 CAPLUS  
 CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-2,5-dimethyl-4-phenyl-, bromide (9CI) (CA INDEX NAME)

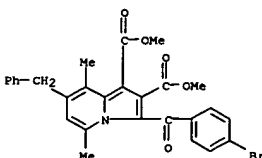
L15 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



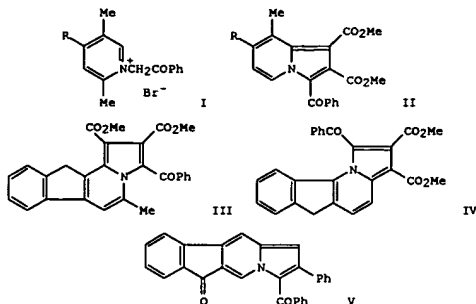
RN 72768-19-5 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 3-(4-bromobenzoyl)-5,8-dimethyl-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 72768-20-8 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 3-(4-bromobenzoyl)-5,8-dimethyl-7-(phenylmethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

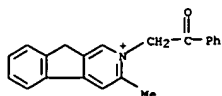


L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1979:523620 CAPLUS  
 DOCUMENT NUMBER: 91:123620  
 TITLE: Substituted indolizines and indenoindolizines  
 AUTHOR(S): Prostakov, N. S.; Gaivoronskaya, L. A.; Anastassi, Rogiros; Sarata Mohomon, Kamara Maiga; Savina, A. A.  
 CORPORATE SOURCE: Univ. Druzhb. Nar. im. Lumumby, Moscow, USSR  
 SOURCE: Khimiya Geterotsiklicheskih Soedinenii (1979), (6), 794-8  
 CODEN: KGSSAQ; ISSN: 0453-8234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 91:123620  
 GI



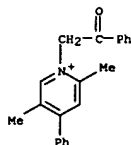
AB Reaction of pyridinium salts I (R = Ph, benzyl) with MeO2CC.cplbond.CO2Me in the presence of Et3N gave 11-2% II. Indenoindolizines III and IV were prepared similarly in 17.5 and 70% yield, resp. Treatment of 9-oxo-3-methyl-2-phenacyl-2-azafluorene bromide with K2CO3 gave 67% 5-oxo-2-phenylindeno[2,3-f]indolizine, which was converted to V by treatment with Br2O.  
 IT 34937-56-9 54485-87-9 59647-41-5  
 71348-83-9  
 RL: RCT (Reactant); RACT (Reactant or reagent) (cycloaddn. reaction of, with di-Me acetylenedicarboxylate)  
 RN 34937-56-9 CAPLUS  
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



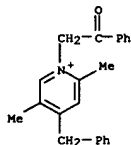
● Br<sup>-</sup>

RN 54485-87-9 CAPLUS  
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

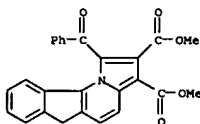
RN 59647-41-5 CAPLUS  
 CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



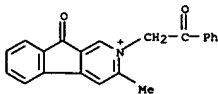
● Br<sup>-</sup>

RN 71348-83-9 CAPLUS  
 CN 6H-Indeno[1,2-e]indolizine-2,3-dicarboxylic acid, 1-benzoyl-, dimethyl

L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 ester (9CI) (CA INDEX NAME)

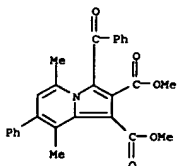


IT 71348-86-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)  
 RN 71348-86-2 CAPLUS  
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-9-oxo-2-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



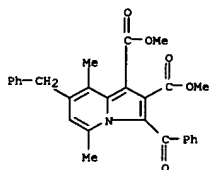
● Br<sup>-</sup>

IT 71348-79-3P 71348-80-6P 71348-81-7P  
 71348-87-3P 71348-88-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 71348-79-3 CAPLUS  
 CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5,8-dimethyl-7-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)

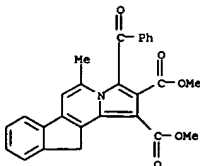


RN 71348-80-6 CAPLUS

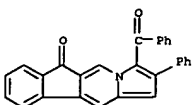
L15 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-5,8-dimethyl-7-(phenylmethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



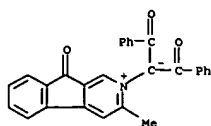
RN 71348-81-7 CAPLUS  
 CN 11H-Indeno[1,2-g]indolizine-1,2-dicarboxylic acid, 3-benzoyl-5-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



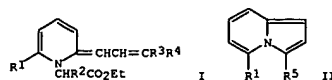
RN 71348-87-3 CAPLUS  
 CN 6H-Indeno[2,1-f]indolizine-6-one, 3-benzoyl-2-phenyl- (9CI) (CA INDEX NAME)



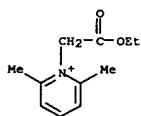
RN 71348-88-4 CAPLUS  
 CN 9H-Indeno[2,1-c]pyridinium, 3-methyl-9-oxo-, 1-benzoyl-2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)



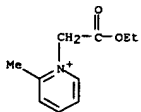
L15 ANSWER 65 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1979:6178 CAPLUS  
 DOCUMENT NUMBER: 90:6178  
 TITLE: Synthesis using allylidenedihydropyridines. 4.  
 Novel  
 AUTHOR(S): synthetic methods for indolizine derivatives  
 Kakehi, Akikazu; Ito, Suketaka; Maeda, Toshiaki;  
 Takeda, Ryoichi; Nishimura, Masao; Tamashima, Masato;  
 Yamaguchi, Tetsuya  
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, Japan  
 SOURCE: Journal of Organic Chemistry (1978), 43(25), 4837-40  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 90:6178  
 GI



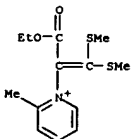
AB The thermolysis of 1,2-dihydropyridines I (R1 = H, Me; R2 = H, Me; R3 = Ac, CO2Et; R4 = CN, Ac) gave indolizines II (R1 = H, Me; R5 = CO2Et, Me), together with NCCH2CO2Et and MeCOCH2COMe. The reactions of I with Ac2O or (EtCO)2O gave the corresponding 2-(acyloxy)-1-vinylindolizine derivs. in 41-83% yields, while those of 1-methyl- and 1-benzyl-2-allylidene-1,2-dihydropyridines with Ac2O did not give indolizines but gave the corresponding monoacetylated products in 47 and 36% yields, resp. In order to elucidate the mechanism of formation of the 2-(acyloxy)-1-vinylindolizines and the cyclization of 2-allylidene-1,2-dihydropyridines possessing a 1-[1-carbethoxy-2,2-bis(alkylthio)vinyl] substituent were attempted and the expected 1-vinylindolizines were obtained in comparatively good yields.  
 IT 31778-09-3 58963-28-3 59181-95-2  
 67988-75-4 67988-76-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation reaction with 2-acylvinyl Et ethers)  
 RN 31778-09-3 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

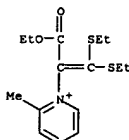
RN 58963-28-3 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

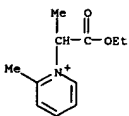
RN 59181-95-2 CAPLUS  
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

● I<sup>-</sup>

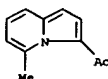
RN 67988-75-4 CAPLUS  
 CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(ethylthio)ethenyl]-2-methyl-,

● I<sup>-</sup>

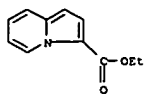
RN 67988-76-5 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-1-methyl-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

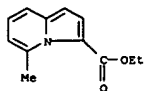
IT 31108-61-9P 55814-14-7P 65894-08-8P  
 67988-71-0P 67988-72-1P 67988-73-2P  
 67988-74-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 31108-61-9 CAPLUS  
 CN Ethanone, 1-(5-methyl-3-indolizynyl)- (9CI) (CA INDEX NAME)



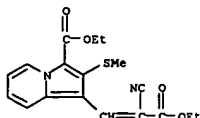
RN 55814-14-7 CAPLUS  
 CN 3-Indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)



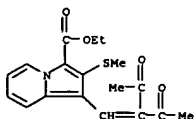
RN 65894-08-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 67988-71-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

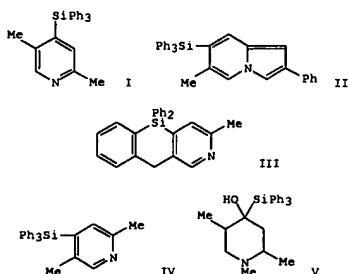


RN 67988-72-1 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(2-acetyl-3-ethoxy-3-oxo-1-propenyl)-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

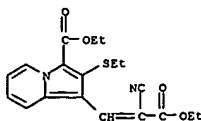


RN 67988-73-2 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(2-cyano-3-ethoxy-3-oxo-1-propenyl)-2-(ethylthio)-, ethyl ester (9CI) (CA INDEX NAME)

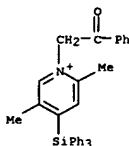
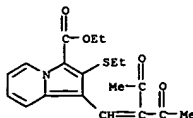
L15 ANSWER 66 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1978:509696 CAPLUS  
DOCUMENT NUMBER: 89:109696  
TITLE: Silyl-substituted pyridine bases, silyl-substituted indolizines, and dihydrosilaazanthracenes  
AUTHOR(S): Varlamov, A. V.; Prostakov, N. S.; Vichkanova, S. A.; Adgina, V. V.; Irosimova, S. B.  
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lummby, Moscow, USSR  
SOURCE: Biol. Akt. Soedin. Elem. IV B Gruppy (1977), 47-53. Akad. Nauk SSSR, Sib. Otd., Irkutsk. Inst. Org.  
Khim.: Irkutsk, USSR.  
CODEN: 380BA2  
DOCUMENT TYPE: Conference  
LANGUAGE: Russian  
GI



AB The title compds. e.g. I-III were prepared. Thus, catalytic dehydrocyclization of IV at 520° gave III. Some silylpiperidinoles (e.g. V) were tested for their bactericidal, and protozoicidal activity against e.g. staphylococcus aureus, candida albicans and trichomonas vaginalis.  
IT 67433-77-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)  
RN 67433-77-6 CAPLUS  
CN Pyridinium, 3,6-dimethyl-1-(2-oxo-2-phenylethyl)-4-(triphenylsilyl)-, bromide (9CI) (CA INDEX NAME)

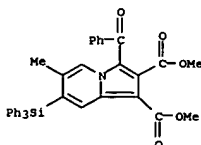


RN 67988-74-3 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(2-acetyl-3-oxo-1-butenyl)-2-(ethylthio)-, ethyl ester (9CI) (CA INDEX NAME)

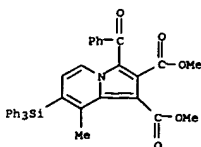


● Br<sup>-</sup>

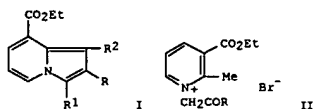
IT 67433-81-2P 67433-82-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 67433-81-2 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-6-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



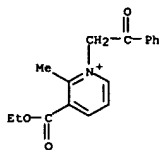
RN 67433-82-3 CAPLUS  
CN 1,2-Indolizinedicarboxylic acid, 3-benzoyl-8-methyl-7-(triphenylsilyl)-, dimethyl ester (9CI) (CA INDEX NAME)



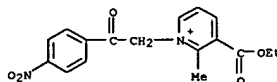
ACCESSION NUMBER: 1978:508995 CAPLUS  
 DOCUMENT NUMBER: 89:108995  
 TITLE: Indolizines. V. Synthesis and properties of 2-methyl(aryl)-8-carbethoxyindolizines  
 AUTHOR(S): Loseva, T. S.; Goizman, M. S.; Alekseeva, L. M.; Shvarts, O. R.; Mikhlin, E. E.; Yakhontov, L. N.  
 CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow, USSR  
 SOURCE: Khimiya Geterotsiklicheskih Soedinenii (1978), (6), 802-8  
 CODEN: KGSSAQ; ISSN: 0453-8234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI



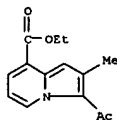
AB Indolizines I (R = Me, Ph, p-tolyl, p-MeOC6H4, p-O2NC6H4; R1 = Ac, CHO, Bz, NO, CH2NMe2, morpholinomethyl; R2 = H, morpholinomethyl) were prepared in 35-86% yield from I (R1 = R2 = H) by 6 different methods, e.g., Mannich reaction or electrophilic substitution. I (R1 = R2 = H) were prepared from pyridinium salts II. The NMR of the prepared compds. was discussed.  
 There was a correlation of pKa with Hammett  $\sigma$  consts. for I (R = aryl, R1 = R2 = H).  
 IT 67557-44-2P 67557-45-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)  
 RN 67557-44-2 CAPLUS  
 CN Pyridinium, 3-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



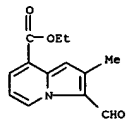
RN 67557-45-3 CAPLUS  
 CN Pyridinium, 3-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)



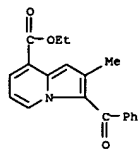
IT 36944-75-9P 67557-20-4P 67557-21-5P  
 67557-23-7P 67557-24-8P 67557-28-2P  
 67557-29-3P 67557-35-1P 67557-36-2P  
 67557-37-3P 67557-40-8P  
 RL: FRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and properties of)  
 RN 36944-75-9 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



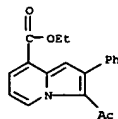
RN 67557-20-4 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-formyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



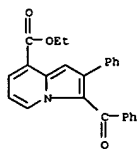
RN 67557-21-5 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



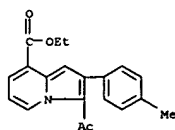
RN 67557-23-7 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



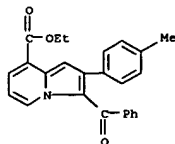
RN 67557-24-8 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



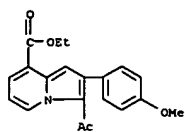
RN 67557-28-2 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



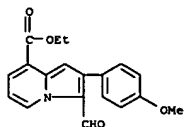
RN 67557-29-3 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



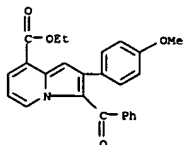
RN 67557-35-1 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 3-acetyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 67557-36-2 CAPLUS  
CN 8-Indolizinecarboxylic acid, 3-formyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

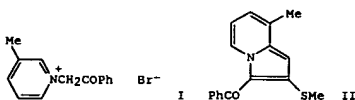


RN 67557-37-3 CAPLUS  
CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 67557-40-8 CAPLUS  
CN 8-Indolizinecarboxylic acid, 3-benzoyl-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 68 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1978:22552 CAPLUS  
DOCUMENT NUMBER: 88:22552  
TITLE: Reaction of pyridinium N-ylides with ketene thioacetal derivatives  
AUTHOR(S): Tomimaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Kurata, Keiji; Awaya, Hiroyoshi; Matsuda, Yoshiro; Kobayashi, Goro  
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan  
SOURCE: Chemical & Pharmaceutical Bulletin (1977), 25(7), 1528-33  
CODEN: CPBTAL; ISSN: 0009-2363  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 88:22552  
GI

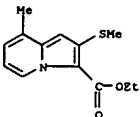


AB Reaction of the pyridinium N-ylides with ketenethioacetal in the presence of Et3N or K2CO3 as a base in EtOH or DMF gave the pyridinium N-allylides which readily cyclized to give the indolizine derivs. Thus, the pyridinium ylide I and (MeS)2C:CHNO2 gave the indolizine II.

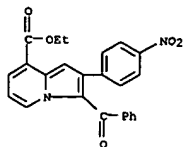
IT 64908-43-6P 64995-26-2P 64995-27-3P  
64995-28-4P 64995-30-8P 64995-31-9P  
64995-32-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

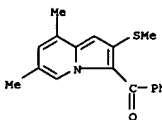
RN 64908-43-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



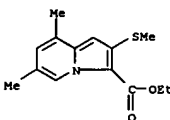
RN 64995-26-2 CAPLUS  
CN Methanone, [8-methyl-2-(methylthio)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



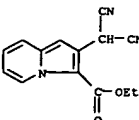
RN 64995-27-3 CAPLUS  
CN Methanone, [6,8-dimethyl-2-(methylthio)-3-indoliziny]phenyl- (9CI) (CA INDEX NAME)



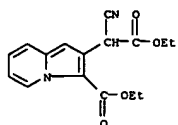
RN 64995-28-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6,8-dimethyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



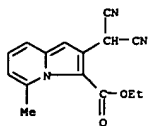
RN 64995-30-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(dicyanomethyl)-, ethyl ester (9CI) (CA INDEX NAME)



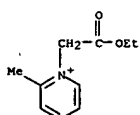
RN 64995-31-9 CAPLUS  
CN 2-Indolizineacetic acid, alpha-cyano-3-(ethoxycarbonyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 64995-32-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-(dicyanomethyl)-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



IT 64995-41-1 64995-42-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with ketenethioacetals)  
RN 64995-41-1 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 64995-42-2 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl- (9CI) (CA INDEX NAME)

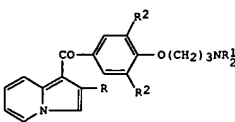
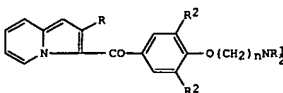
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1978:6719 CAPLUS  
DOCUMENT NUMBER: 88:6719  
TITLE: Indolizine derivatives  
INVENTOR(S): Gubin, Jean; Rosseels, Gilbert  
PATENT ASSIGNEE(S): Labaz S. A., Fr.  
SOURCE: Ger. Offen., 65 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2707048	A1	19770901	DE 1977-2707048	19770218
DE 2707048	C2	19831117		
GB 1518443	A	19780719	GB 1976-6680	19760219
FI 7700318	A	19770820	FI 1977-318	19770131
FI 61030	B	19820129		
FI 61030	C	19820510		
AT 7700920	A	19800115	AT 1977-920	19770211
AT 358035	B	19800811		
CH 617697	A	19800613	CH 1977-1808	19770214
FR 2341578	A1	19770916	FR 1977-4171	19770215
FR 2341578	B1	19800430		
BE 851463	A1	19770816	BE 1977-174955	19770216
US 4103012	A	19780725	US 1977-769332	19770216
SU 674674	D	19790715	SU 1977-2452005	19770216
SE 7701771	A	19770820	SE 1977-1771	19770217
SE 420314	B	19810928		
SE 420314	C	19820114		
NL 7701678	A	19770823	NL 1977-1678	19770217
NL 164283	B	19800715		
NL 164283	C	19801215		
DD 131558	C	19780705	DD 1977-197389	19770217
AU 7722394	A1	19780824	AU 1977-22394	19770217
PL 113904	B1	19810131	PL 1977-202797	19770217
DK 7700726	A	19770820	DK 1977-726	19770218
DK 142622	B	19801201		
DK 142622	C	19810803		
NO 7700547	A	19770822	NO 1977-547	19770218
NO 145842	B	19820301		
NO 145842	C	19820609		
JP 52125193	A2	19771020	JP 1977-17689	19770218
JP 55019234	B4	19800524		
ZA 7701002	A	19771228	ZA 1977-1002	19770218
ES 456039	A1	19780516	ES 1977-456039	19770218
CA 1071198	A1	19800205	CA 1977-272103	19770218
HU 22954	O	19820728	HU 1977-LA507	19770218
HU 180492	B	19830328		
SU 715025	D	19800205	SU 1977-2530249	19771012
ES 467441	A1	19781016	ES 1978-467441	19780301
AT 7900952	A	19800215	AT 1979-952	19790208
AT 358595	B	19800925		
CH 623322	A	19810529	CH 1979-10680	19791130
			GB 1976-6680	A 19760219
			GB 1976-33314	A 19760810
			AT 1977-920	A 19770211

PRIORITY APPL. INFO.:

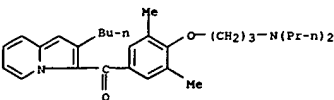
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CH 1977-1808 A 19770214

OTHER SOURCE(S): MARPAT 88:6719  
GI



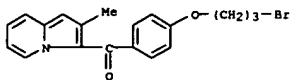
AB Aminoalkoxybenzoylindolizines I (R = Me, Et, Pr, CHMe2, Bu, pentyl, Ph, 4-FC6H4, 4-ClC6H4, 4-BrC6H4, 4-MeOC6H4, 2-BrC6H4, 3,4-Cl2C6H3, 3-BrC6H4, 3,4-ClMeC6H3, 4-MeC6H4; R1 = Me, Et, Pr, Bu; R2 = H, Me; n = 2-6) (74 compds.) and II (R = R1 = Pr, R2 = H, R = Et, R1 = Pr, Bu, R2 = H, Me) were prepared and had cardiac activity. Thus, 2-picoline was treated with ClCO2Et and cyclized with (EtCO)2O, 2-ethylindolizine treated with 4-(4-MeC6H4SO3)C6H4COCl, 2-ethyl-3-(4-tosyloxybenzoyl)indolizine detosylated, the hydroxybenzoylindolizine treated with Br(CH2)3Br and Bu2NH to give I (R = Et, R1 = Bu, R2 = H, n = 3), which at 10 mg/kg i.v. in dogs caused 37% decrease in heart rate.

IT 64577-87-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cardiac activity of)  
RN 64577-87-3 CAPLUS  
CN Methanone, (2-butyl-3-indolizinyloxy)[4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl]- (9CI) (CA INDEX NAME)

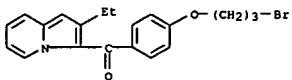


IT 64467-90-9P 64467-91-0P 64467-92-1P  
64467-93-2P 64467-94-3P 64467-95-4P  
64467-96-5P 64467-97-6P 64467-98-7P  
64467-99-8P 64468-00-4P 64468-01-5P  
64468-02-6P 64468-03-7P 64675-85-0P

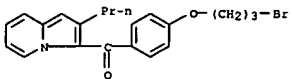
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 64676-53-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. and amination of)  
 RN 64467-90-9 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-methyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)



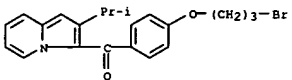
RN 64467-91-0 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-ethyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)



RN 64467-92-1 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-propyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)



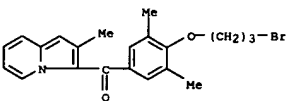
RN 64467-93-2 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-(1-methylethyl)-3-indoliziny)-  
 (9CI) (CA INDEX NAME)



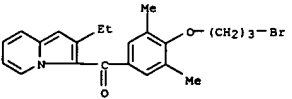
RN 64467-94-3 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-butyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

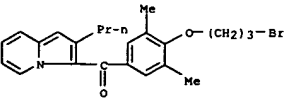
RN 64467-99-8 CAPLUS  
 CN Methanone,  
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-methyl-3-indoliziny)-  
 (9CI) (CA INDEX NAME)



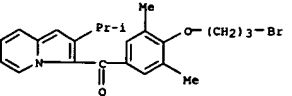
RN 64468-00-4 CAPLUS  
 CN Methanone,  
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-ethyl-3-indoliziny)-  
 (9CI) (CA INDEX NAME)



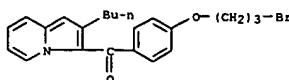
RN 64468-01-5 CAPLUS  
 CN Methanone,  
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-propyl-3-indoliziny)-  
 (9CI) (CA INDEX NAME)



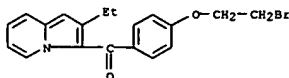
RN 64468-02-6 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-(1-methylethyl)-3-  
 indoliziny)- (9CI) (CA INDEX NAME)



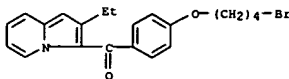
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



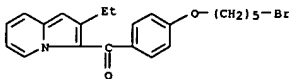
RN 64467-95-4 CAPLUS  
 CN Methanone, [4-(2-bromoethoxy)phenyl] (2-ethyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)



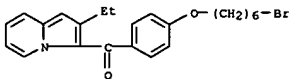
RN 64467-96-5 CAPLUS  
 CN Methanone, [4-(4-bromobutoxy)phenyl] (2-ethyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)



RN 64467-97-6 CAPLUS  
 CN Methanone, [4-(5-bromopentyl)oxy]phenyl] (2-ethyl-3-indoliziny)- (9CI)  
 (CA INDEX NAME)

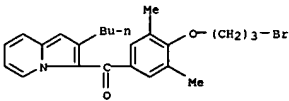


RN 64467-98-7 CAPLUS  
 CN Methanone, [4-(6-bromohexyl)oxy]phenyl] (2-ethyl-3-indoliziny)- (9CI)  
 (CA INDEX NAME)

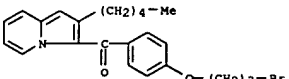


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

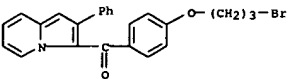
RN 64468-03-7 CAPLUS  
 CN Methanone,  
 [4-(3-bromopropoxy)-3,5-dimethylphenyl] (2-butyl-3-indoliziny)-  
 (9CI) (CA INDEX NAME)



RN 64675-85-0 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-pentyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)



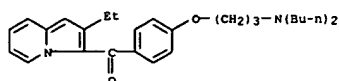
RN 64676-53-5 CAPLUS  
 CN Methanone, [4-(3-bromopropoxy)phenyl] (2-phenyl-3-indoliziny)- (9CI) (CA  
 INDEX NAME)



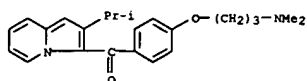
IT 62228-20-0P 64466-95-1P 64675-87-2P  
 64675-88-3P 64675-89-4P 64675-90-7P  
 64675-91-8P 64675-92-9P 64675-93-0P  
 64675-94-1P 64675-95-2P 64675-96-3P  
 64675-97-4P 64675-98-5P 64675-99-6P  
 64676-00-2P 64676-01-3P 64676-02-4P  
 64676-03-5P 64676-04-6P 64676-05-7P  
 64676-06-8P 64676-08-0P 64676-09-1P  
 64676-10-4P 64676-12-6P 64676-13-7P  
 64676-14-8P 64676-18-2P 64676-23-9P  
 64676-55-7P 64676-57-9P 64676-59-1P  
 64676-61-5P 64676-63-7P 64676-65-9P  
 64676-67-1P 64676-69-3P 64676-71-7P  
 64676-73-9P 64676-77-3P 64676-79-5P  
 64676-83-1P 64676-85-3P 64676-87-5P  
 64676-91-1P 64676-93-3P 64676-97-7P  
 64676-99-9P 64677-01-6P 64677-03-8P  
 64677-05-0P 64677-07-2P 64704-61-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)



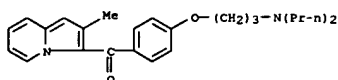
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 (prepn. and cardiac activity of)  
 RN 62228-20-0 CAPLUS  
 CN Methanone, [4-{3-(dibutylamino)propoxy}phenyl](2-ethyl-3-indoliziny)-  
 (9CI) (CA INDEX NAME)



RN 64466-95-1 CAPLUS  
 CN Methanone, [4-{3-(dimethylamino)propoxy}phenyl](2-(1-methylethyl)-3-indoliziny)- (9CI) (CA INDEX NAME)

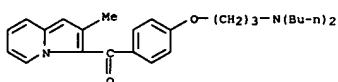


RN 64675-87-2 CAPLUS  
 CN Methanone, [4-{3-(dipropylamino)propoxy}phenyl](2-methyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



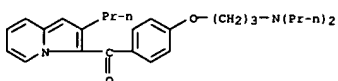
●x HCl

RN 64675-88-3 CAPLUS  
 CN Methanone, [4-{3-(dibutylamino)propoxy}phenyl](2-methyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



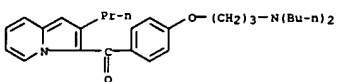
●x HCl

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



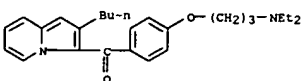
●x HCl

RN 64675-93-0 CAPLUS  
 CN Methanone, [4-{3-(dibutylamino)propoxy}phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

RN 64675-94-1 CAPLUS  
 CN Methanone, (2-butyl-3-indoliziny)[4-{3-(diethylamino)propoxy}phenyl]-, hydrochloride (9CI) (CA INDEX NAME)

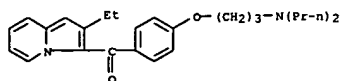


●x HCl

RN 64675-95-2 CAPLUS  
 CN Methanone, (2-butyl-3-indoliziny)[4-{3-(dipropylamino)propoxy}phenyl]-, hydrochloride (9CI) (CA INDEX NAME)

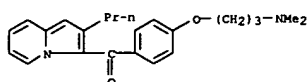
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 64675-89-4 CAPLUS  
 CN Methanone, [4-{3-(dipropylamino)propoxy}phenyl](2-ethyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



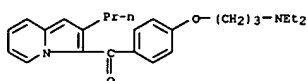
●x HCl

RN 64675-90-7 CAPLUS  
 CN Methanone, [4-{3-(dimethylamino)propoxy}phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

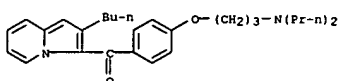
RN 64675-91-8 CAPLUS  
 CN Methanone, [4-{3-(diethylamino)propoxy}phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

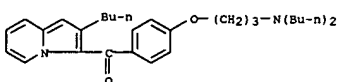
RN 64675-92-9 CAPLUS  
 CN Methanone, [4-{3-(dipropylamino)propoxy}phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



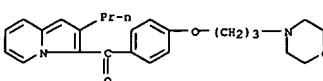
●x HCl

RN 64675-96-3 CAPLUS  
 CN Methanone, (2-butyl-3-indoliziny)[4-{3-(dibutylamino)propoxy}phenyl]-, hydrochloride (9CI) (CA INDEX NAME)



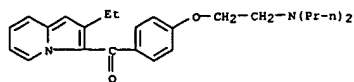
●x HCl

RN 64675-97-4 CAPLUS  
 CN Methanone, [4-{3-(4-morpholinyl)propoxy}phenyl](2-propyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



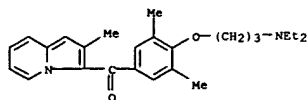
●x HCl

RN 64675-98-5 CAPLUS  
 CN Methanone, [4-{2-(dipropylamino)ethoxy}phenyl](2-ethyl-3-indoliziny)-, hydrochloride (9CI) (CA INDEX NAME)



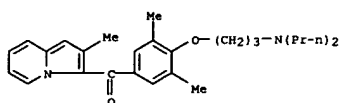
● x HCl

RN 64675-99-6 CAPLUS  
CN Methanone, [4-{3-(diethylamino)propoxy}-3,5-dimethylphenyl](2-methyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)



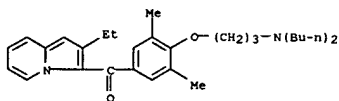
● x HCl

RN 64676-00-2 CAPLUS  
CN Methanone, [4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl](2-methyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)



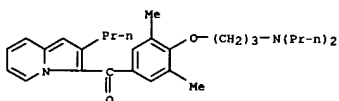
● x HCl

RN 64676-01-3 CAPLUS  
CN Methanone, [4-{3-(dibutylamino)propoxy}-3,5-dimethylphenyl](2-methyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)



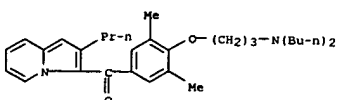
● x HCl

RN 64676-05-7 CAPLUS  
CN Methanone, [4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl](2-propyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

RN 64676-06-8 CAPLUS  
CN Methanone, [4-{3-(dibutylamino)propoxy}-3,5-dimethylphenyl](2-propyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)

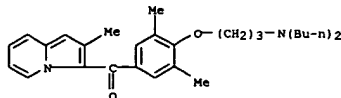


● x HCl

RN 64676-08-0 CAPLUS  
CN Methanone, [4-{2-(dibutylamino)ethoxy}phenyl](2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

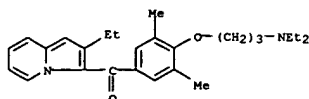
CM 1

CRN 64466-74-6  
CMF C27 H36 N2 O2



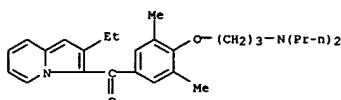
● x HCl

RN 64676-02-4 CAPLUS  
CN Methanone, [4-{3-(diethylamino)propoxy}-3,5-dimethylphenyl](2-ethyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)



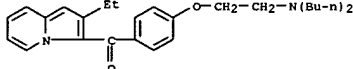
● x HCl

RN 64676-03-5 CAPLUS  
CN Methanone, [4-{3-(dipropylamino)propoxy}-3,5-dimethylphenyl](2-ethyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

RN 64676-04-6 CAPLUS  
CN Methanone, [4-{3-(dibutylamino)propoxy}-3,5-dimethylphenyl](2-ethyl-3-indolizinyloxy)-, hydrochloride (9CI) (CA INDEX NAME)



CM 2

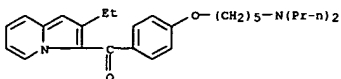
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-09-1 CAPLUS  
CN Methanone, [4-{5-(dipropylamino)pentyl}oxy]phenyl](2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64466-80-4  
CMF C28 H38 N2 O2



CM 2

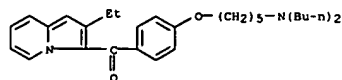
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-10-4 CAPLUS  
CN Methanone, [4-{5-(dibutylamino)pentyl}oxy]phenyl](2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64466-82-6  
CMF C30 H42 N2 O2

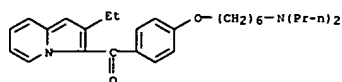


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-12-6 CAPLUS  
CN Methanone, [4-[[6-(dipropylamino)hexyl]oxy]phenyl] (2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64466-84-8  
CMF C29 H40 N2 O2

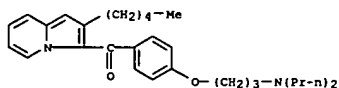


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-13-7 CAPLUS  
CN Methanone, [4-[[4-(dipropylamino)butoxy]phenyl] (2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64466-76-8

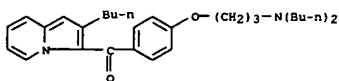


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-23-9 CAPLUS  
CN Methanone, [2-butyl-3-indolizinyloxy] [4-[[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64676-22-8  
CMF C30 H42 N2 O2

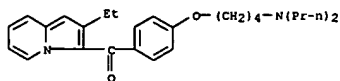


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-55-7 CAPLUS  
CN Methanone, [4-[[3-(dibutylamino)propoxy]phenyl] (2-phenyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64676-54-6

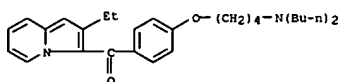


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-14-8 CAPLUS  
CN Methanone, [4-[[4-(dibutylamino)butoxy]phenyl] (2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64466-78-0  
CMF C29 H40 N2 O2

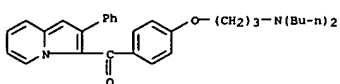


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-18-2 CAPLUS  
CN Methanone, [4-[[3-(dipropylamino)propoxy]phenyl] (2-pentyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64676-17-1

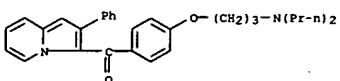


CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-57-9 CAPLUS  
CN Methanone, [4-[[3-(dipropylamino)propoxy]phenyl] (2-phenyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64676-56-8  
CMF C30 H34 N2 O2



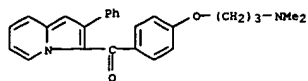
CM 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-59-1 CAPLUS  
CN Methanone, [4-[[3-(dimethylamino)propoxy]phenyl] (2-phenyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CM 1  
CRN 64676-58-0

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CMF C26 H26 N2 O2



CM 2

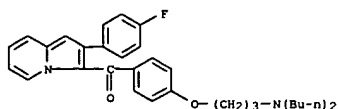
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-61-5 CAPLUS  
CM Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-60-4  
CMF C32 H37 F N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



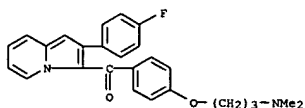
RN 64676-63-7 CAPLUS  
CM Methanone, [4-[3-(dipropylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CM Methanone, [4-[3-(dimethylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-66-0  
CMF C26 H25 F N2 O2



CM 2

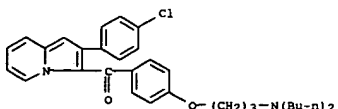
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-69-3 CAPLUS  
CM Methanone, [2-(4-chlorophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-68-2  
CMF C32 H37 Cl N2 O2

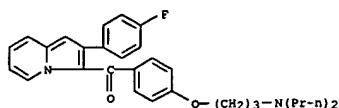


CM 2

CRN 144-62-7  
CMF C2 H2 O4

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 64676-62-6  
CMF C30 H33 F N2 O2



CM 2

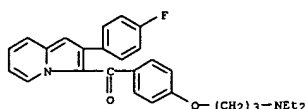
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-65-9 CAPLUS  
CM Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-(4-fluorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-64-8  
CMF C28 H29 F N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 64676-67-1 CAPLUS

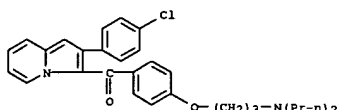
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 64676-71-7 CAPLUS  
CM Methanone, [2-(4-chlorophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-70-6  
CMF C30 H33 Cl N2 O2



CM 2

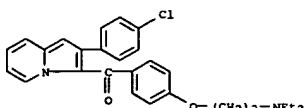
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-73-9 CAPLUS  
CM Methanone, [2-(4-chlorophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-72-8  
CMF C28 H29 Cl N2 O2



CM 2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

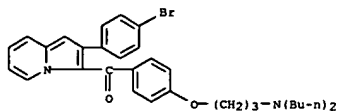
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-77-3 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-76-2  
CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



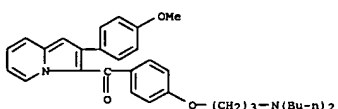
RN 64676-79-5 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-78-4  
CMF C30 H33 Br N2 O2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CRN 64676-84-2  
CMF C33 H40 N2 O3



CM 2

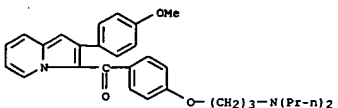
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-87-5 CAPLUS  
CN Methanone, [4-[3-(dipropylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-86-4  
CMF C31 H36 N2 O3



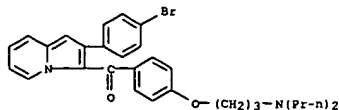
CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 64676-91-1 CAPLUS

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

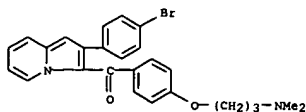
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-83-1 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-82-0  
CMF C26 H25 Br N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



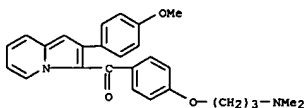
RN 64676-85-3 CAPLUS  
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CN Methanone, [4-[3-(dimethylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-90-0  
CMF C27 H28 N2 O3



CM 2

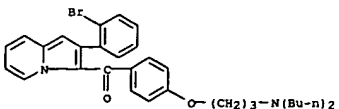
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-93-3 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-92-2  
CMF C32 H37 Br N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4

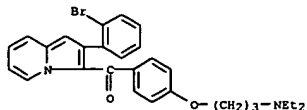
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 64676-97-7 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64676-96-6  
CMF C28 H29 Br N2 O2



CM 2

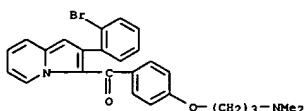
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-99-9 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

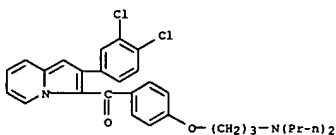
CM 1

CRN 64676-98-8  
CMF C26 H25 Br N2 O2



CM 2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

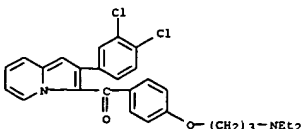
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CMF C2 H2 O4



RN 64677-05-0 CAPLUS  
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64677-04-9  
CMF C28 H28 Cl2 N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 64677-07-2 CAPLUS  
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

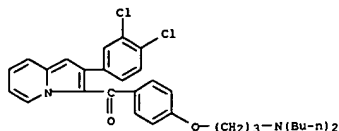
CRN 144-62-7  
CMF C2 H2 O4



RN 64677-01-6 CAPLUS  
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(3,4-dichlorophenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64677-00-5  
CMF C32 H36 Cl2 N2 O2



CM 2

CRN 144-62-7  
CMF C2 H2 O4



RN 64677-03-8 CAPLUS  
CN Methanone, [2-(3,4-dichlorophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

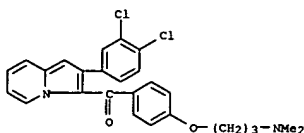
CM 1

CRN 64677-02-7  
CMF C30 H32 Cl2 N2 O2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 1

CRN 64677-06-1  
CMF C26 H24 Cl2 N2 O2



CM 2

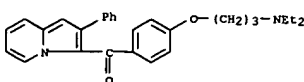
CRN 144-62-7  
CMF C2 H2 O4



RN 64704-61-6 CAPLUS  
CN Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-phenyl-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 64704-60-5  
CMF C28 H30 N2 O2

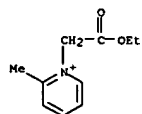


CM 2

CRN 144-62-7  
CMF C2 H2 O4

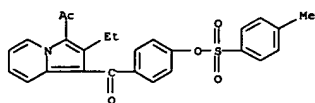


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 IT 58963-28-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of, with propionic anhydride)  
 RN 58963-28-3 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

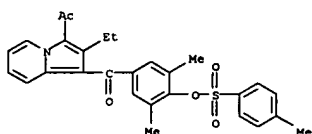


● Cl<sup>-</sup>

IT 64467-72-7P 64467-73-8P 64467-74-9P  
 64467-75-0P 64676-24-0P 64676-25-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and deacetylation of)  
 RN 64467-72-7 CAPLUS  
 CN Ethanone, 1-[2-ethyl-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)

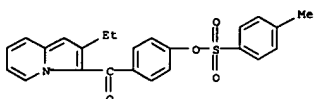


RN 64467-73-8 CAPLUS  
 CN Ethanone, 1-[1-[3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-2-ethyl-3-indoliziny]]- (9CI) (CA INDEX NAME)

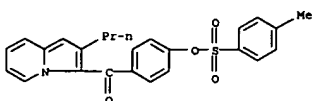


RN 64467-74-9 CAPLUS

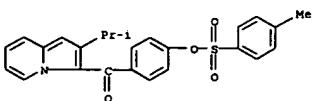
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 64676-34-2P 64676-35-3P 64676-36-4P  
 64676-37-5P 64676-38-6P 64676-39-7P  
 64676-40-0P 64676-41-1P 64676-42-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and desulfonylation of)  
 RN 64467-11-4 CAPLUS  
 CN Methanone, [2-ethyl-3-indoliziny]] [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny)]- (9CI) (CA INDEX NAME)



RN 64467-12-5 CAPLUS  
 CN Methanone, [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-propyl-3-indoliziny)]- (9CI) (CA INDEX NAME)

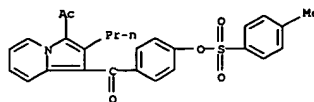


RN 64467-13-6 CAPLUS  
 CN Methanone, [2-(1-methylethyl)-3-indoliziny]] [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny)]- (9CI) (CA INDEX NAME)

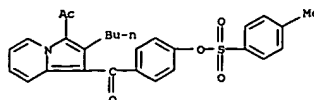


RN 64467-14-7 CAPLUS  
 CN Methanone, [2-butyl-3-indoliziny]] [4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny)]- (9CI) (CA INDEX NAME)

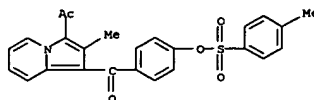
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 CN Ethanone, 1-[1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-2-propyl-3-indoliziny]]- (9CI) (CA INDEX NAME)



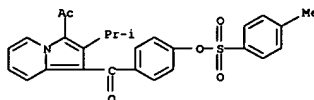
RN 64467-75-0 CAPLUS  
 CN Ethanone, 1-[2-butyl-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)



RN 64676-24-0 CAPLUS  
 CN Ethanone, 1-[2-methyl-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)

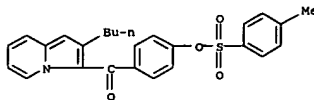


RN 64676-25-1 CAPLUS  
 CN Ethanone, 1-[2-(1-methylethyl)-1-[4-[[[(4-methylphenyl)sulfonyl]oxy]benzoyl]-3-indoliziny]]- (9CI) (CA INDEX NAME)

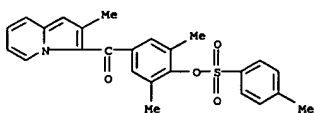


IT 64467-11-4P 64467-12-5P 64467-13-6P  
 64467-14-7P 64467-15-8P 64467-16-9P  
 64467-17-0P 64467-65-8P 64467-66-9P  
 64596-94-7P 64675-82-7P 64676-33-1P

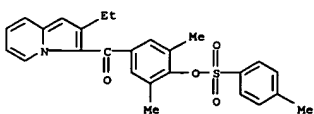
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



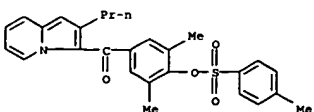
RN 64467-15-8 CAPLUS  
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-methyl-3-indoliziny)]- (9CI) (CA INDEX NAME)



RN 64467-16-9 CAPLUS  
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-ethyl-3-indoliziny)]- (9CI) (CA INDEX NAME)

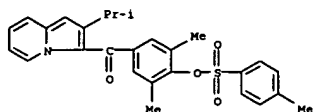


RN 64467-17-0 CAPLUS  
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-propyl-3-indoliziny)]- (9CI) (CA INDEX NAME)

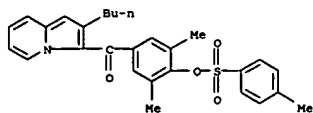


RN 64467-65-8 CAPLUS  
 CN Methanone, [3,5-dimethyl-4-[[[(4-methylphenyl)sulfonyl]oxy]phenyl] (2-(1-

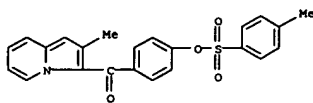
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



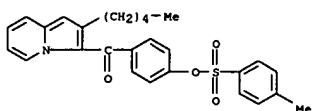
RN 64467-66-9 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 64596-94-7 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)

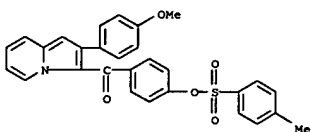


RN 64675-82-7 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)

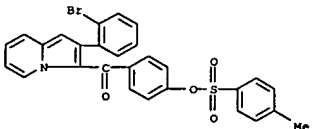


RN 64676-33-1 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)

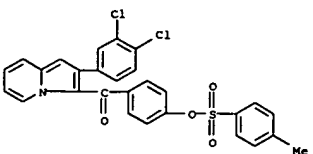
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 64676-37-5 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



RN 64676-38-6 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)

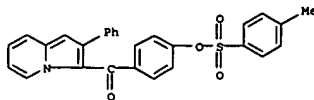


RN 64676-39-7 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)

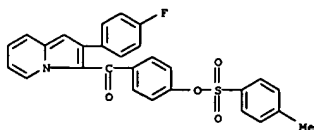


RN 64676-40-0 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)

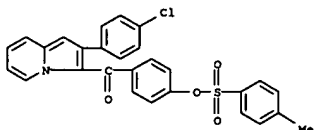
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
indoliziny]- (9CI) (CA INDEX NAME)



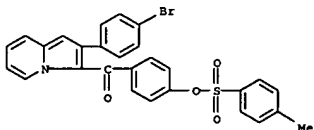
RN 64676-34-2 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



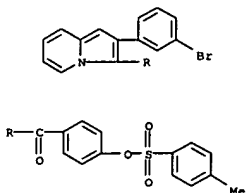
RN 64676-35-3 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



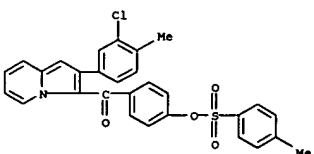
RN 64676-36-4 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



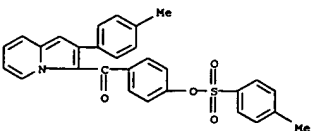
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 64676-41-1 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



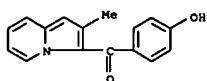
RN 64676-42-2 CAPLUS  
CN Methanone, 3-(2-butyl-3-indoliziny)-3-indoliziny]- (9CI) (CA INDEX NAME)



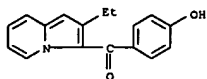
IT 64466-52-0P 64466-53-1P 64466-54-2P  
64466-55-3P 64466-56-4P 64466-57-5P  
64466-58-6P 64466-59-7P 64466-60-0P  
64466-61-1P 64466-62-2P 64466-63-3P  
64466-64-4P 64466-65-5P 64466-66-6P  
64466-67-7P 64466-68-8P 64466-69-9P  
64466-70-0P 64466-71-1P 64466-72-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)



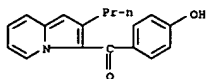
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 (prepn. and reaction of, with dibromopropane)  
 RN 64466-52-0 CAPLUS  
 CN Methanone, (4-hydroxyphenyl) (2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



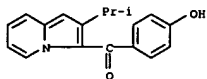
RN 64466-53-1 CAPLUS  
 CN Methanone, (2-ethyl-3-indoliziny)- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RN 64466-54-2 CAPLUS  
 CN Methanone, (4-hydroxyphenyl) (2-propyl-3-indoliziny)- (9CI) (CA INDEX NAME)

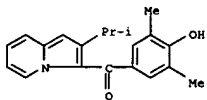


RN 64466-55-3 CAPLUS  
 CN Methanone, (4-hydroxyphenyl) [2-(1-methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)

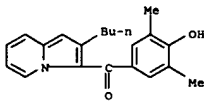


RN 64466-56-4 CAPLUS  
 CN Methanone, (2-butyl-3-indoliziny)- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

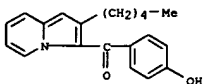
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



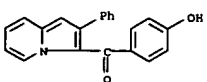
RN 64466-61-1 CAPLUS  
 CN Methanone, (2-butyl-3-indoliziny)- (4-hydroxy-3,5-dimethylphenyl)- (9CI) (CA INDEX NAME)



RN 64675-84-9 CAPLUS  
 CN Methanone, (4-hydroxyphenyl) (2-pentyl-3-indoliziny)- (9CI) (CA INDEX NAME)

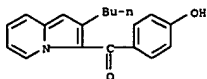


RN 64676-43-3 CAPLUS  
 CN Methanone, (4-hydroxyphenyl) (2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)

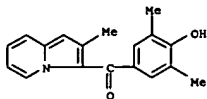


RN 64676-44-4 CAPLUS  
 CN Methanone, [2-(4-fluorophenyl)-3-indoliziny]- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

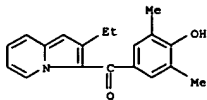
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



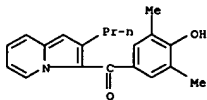
RN 64466-57-5 CAPLUS  
 CN Methanone, (4-hydroxy-3,5-dimethylphenyl) (2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



RN 64466-58-6 CAPLUS  
 CN Methanone, (2-ethyl-3-indoliziny)- (4-hydroxy-3,5-dimethylphenyl)- (9CI) (CA INDEX NAME)

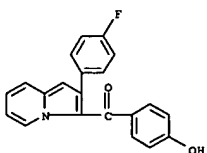


RN 64466-59-7 CAPLUS  
 CN Methanone, (4-hydroxy-3,5-dimethylphenyl) (2-propyl-3-indoliziny)- (9CI) (CA INDEX NAME)

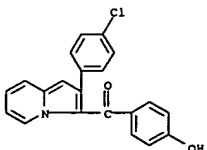


RN 64466-60-0 CAPLUS  
 CN Methanone, (4-hydroxy-3,5-dimethylphenyl) [2-(1-methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)

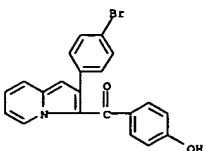
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



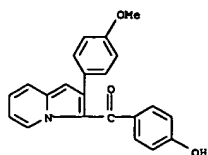
RN 64676-45-5 CAPLUS  
 CN Methanone, [2-(4-chlorophenyl)-3-indoliziny]- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



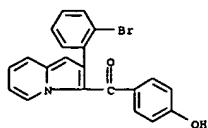
RN 64676-46-6 CAPLUS  
 CN Methanone, [2-(4-bromophenyl)-3-indoliziny]- (4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



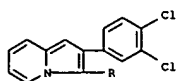
RN 64676-47-7 CAPLUS  
 CN Methanone, (4-hydroxyphenyl) [2-(4-methoxyphenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



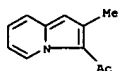
RN 64676-48-8 CAPLUS  
CN Methanone, [2-(2-bromophenyl)-3-indolizinyloxy(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



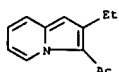
RN 64676-49-9 CAPLUS  
CN Methanone, [2-(3,4-dichlorophenyl)-3-indolizinyloxy(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



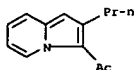
RN 64676-50-2 CAPLUS  
CN Methanone, [2-(3-bromophenyl)-3-indolizinyloxy(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



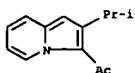
RN 36944-76-0 CAPLUS  
CN Ethanone, 1-(2-ethyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



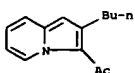
RN 58963-32-9 CAPLUS  
CN Ethanone, 1-(2-propyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



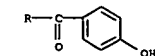
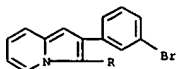
RN 58963-33-0 CAPLUS  
CN Ethanone, 1-[2-(1-methylethyl)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



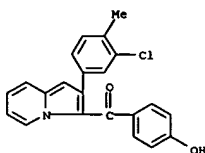
RN 58963-34-1 CAPLUS  
CN Ethanone, 1-(2-butyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



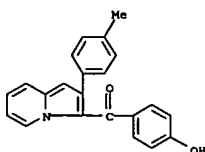
IT 64675-86-1P 64676-07-9P 64676-11-5P  
64676-16-0P 64676-19-3P 64676-20-6P  
64676-21-7P 64676-75-1P 64676-81-9P  
64676-89-7P 64677-09-4P 64677-11-8P  
64677-13-0P 64677-15-2P 64677-17-4P  
64677-19-6P 64677-21-0P 64677-23-2P  
64677-25-4P 64677-27-6P 64677-29-8P  
64677-31-2P



RN 64676-51-3 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indolizinyloxy(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



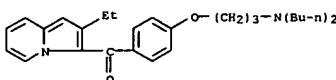
RN 64676-52-4 CAPLUS  
CN Methanone, (4-hydroxyphenyl)[2-(4-methylphenyl)-3-indolizinyloxy]- (9CI) (CA INDEX NAME)



IT 24004-45-3P 36944-76-0P 58963-32-9P  
58963-33-0P 58963-34-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with tosyloxybenzoyl chloride)  
RN 24004-45-3 CAPLUS  
CN Ethanone, 1-(2-methyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

RN 64675-86-1 CAPLUS  
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-ethyl-3-indolizinyloxy]-, hydrochloride (9CI) (CA INDEX NAME)

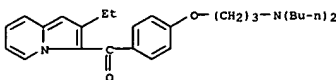


• x HCl

RN 64676-07-9 CAPLUS  
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-ethyl-3-indolizinyloxy]-, methanesulfonate (9CI) (CA INDEX NAME)

CH 1

CRN 62228-20-0  
CMF C28 H38 N2 O2



CH 2

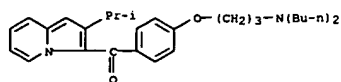
CRN 75-75-2  
CMF C H4 O3 S



RN 64676-11-5 CAPLUS  
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(1-methylethyl)-3-indolizinyloxy]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64466-96-2  
CMF C29 H40 N2 O2

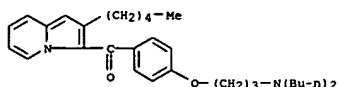


CH 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-16-0 CAPLUS  
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl](2-pentyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1  
CRN 64676-15-9  
CMF C31 H44 N2 O2



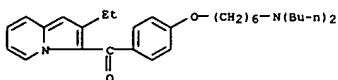
CH 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-19-3 CAPLUS  
CN Methanone, [2-butyl-3-indolizinyloxy][4-[3-(dipropylamino)propoxy]-3,5-dimethylphenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1  
CRN 64577-87-3  
CMF C30 H42 N2 O2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CRN 64466-86-0  
CMF C31 H44 N2 O2

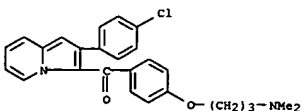


CH 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-75-1 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indolizinyloxy][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

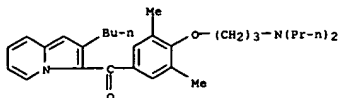
CH 1  
CRN 64676-74-0  
CMF C26 H25 Cl N2 O2



CH 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-81-9 CAPLUS  
CN Methanone, [2-(4-bromophenyl)-3-indolizinyloxy][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

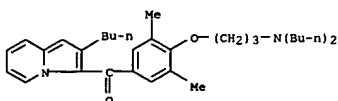


CH 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-20-6 CAPLUS  
CN Methanone, (2-butyl-3-indolizinyloxy)[4-[3-(dibutylamino)propoxy]-3,5-dimethylphenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1  
CRN 64577-89-5  
CMF C32 H46 N2 O2



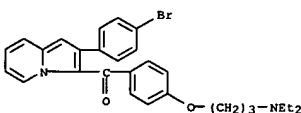
CH 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-21-7 CAPLUS  
CN Methanone, [4-[[6-(dibutylamino)hexyloxy]phenyl](2-ethyl-3-indolizinyloxy)-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CH 1  
CRN 64676-80-8  
CMF C28 H29 Br N2 O2

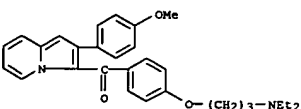


CH 2  
CRN 144-62-7  
CMF C2 H2 O4



RN 64676-89-7 CAPLUS  
CN Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-(4-methoxyphenyl)-3-indolizinyloxy]-, ethanedioate (9CI) (CA INDEX NAME)

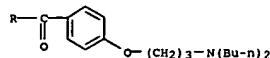
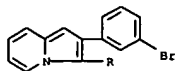
CH 1  
CRN 64676-88-6  
CMF C29 H32 N2 O3



CH 2  
CRN 144-62-7  
CMF C2 H2 O4



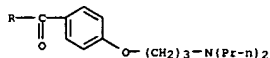
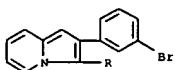
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 64677-09-4 CAPLUS  
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)  
 CH 1  
 CRN 64677-08-3  
 CMF C32 H37 Br N2 O2



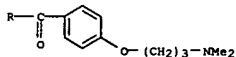
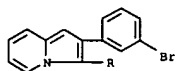
CH 2  
 CRN 144-62-7  
 CMF C2 H2 O4



RN 64677-11-8 CAPLUS  
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)  
 CH 1  
 CRN 64677-10-7  
 CMF C30 H33 Br N2 O2



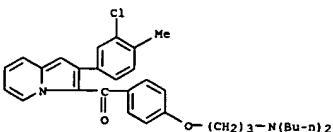
L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CH 2  
 CRN 144-62-7  
 CMF C2 H2 O4



RN 64677-17-4 CAPLUS  
 CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-[3-(dibutylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)  
 CH 1  
 CRN 64677-16-3  
 CMF C33 H39 Cl N2 O2



CH 2  
 CRN 144-62-7  
 CMF C2 H2 O4

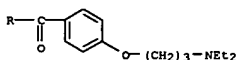
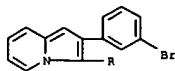


L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CH 2  
 CRN 144-62-7  
 CMF C2 H2 O4



RN 64677-13-0 CAPLUS  
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)  
 CH 1  
 CRN 64677-12-9  
 CMF C28 H29 Br N2 O2



CH 2  
 CRN 144-62-7  
 CMF C2 H2 O4

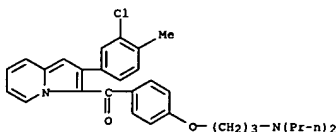


RN 64677-15-2 CAPLUS  
 CN Methanone, [2-(3-bromophenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)  
 CH 1  
 CRN 64677-14-1  
 CMF C26 H25 Br N2 O2

L15 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 64677-19-6 CAPLUS  
 CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-[3-(dipropylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

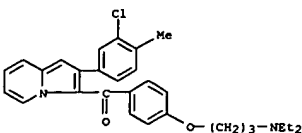
CH 1  
 CRN 64677-18-5  
 CMF C31 H35 Cl N2 O2



CH 2  
 CRN 144-62-7  
 CMF C2 H2 O4



RN 64677-21-0 CAPLUS  
 CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-[3-(diethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)  
 CH 1  
 CRN 64677-20-9  
 CMF C29 H31 Cl N2 O2



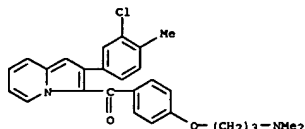
CH 2  
 CRN 144-62-7  
 CMF C2 H2 O4



RN 64677-23-2 CAPLUS  
CN Methanone, [2-(3-chloro-4-methylphenyl)-3-indoliziny][4-[3-(dimethylamino)propoxy]phenyl]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-22-1  
CMF C27 H27 Cl N2 O2



CH 2

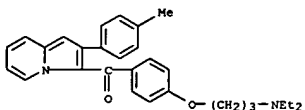
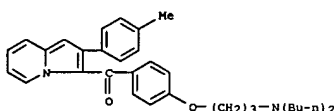
CRN 144-62-7  
CMF C2 H2 O4



RN 64677-25-4 CAPLUS  
CN Methanone, [4-[3-(dibutylamino)propoxy]phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-24-3  
CMF C33 H40 N2 O2



CH 2

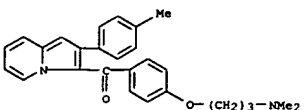
CRN 144-62-7  
CMF C2 H2 O4



RN 64677-31-2 CAPLUS  
CN Methanone, [4-[3-(dimethylamino)propoxy]phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-30-1  
CMF C27 H28 N2 O2



CH 2

CRN 144-62-7  
CMF C2 H2 O4



CH 2

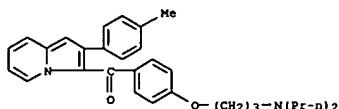
CRN 144-62-7  
CMF C2 H2 O4



RN 64677-27-6 CAPLUS  
CN Methanone, [4-[3-(dipropylamino)propoxy]phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-26-5  
CMF C31 H36 N2 O2



CH 2

CRN 144-62-7  
CMF C2 H2 O4



RN 64677-29-8 CAPLUS  
CN Methanone, [4-[3-(diethylamino)propoxy]phenyl][2-(4-methylphenyl)-3-indoliziny]-, ethanedioate (9CI) (CA INDEX NAME)

CH 1

CRN 64677-28-7  
CMF C29 H32 N2 O2

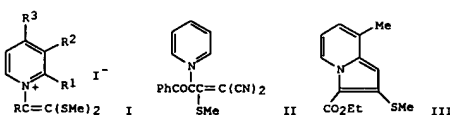
ACCESSION NUMBER: 1978:6669 CAPLUS

DOCUMENT NUMBER: 88:6669

TITLE: Heterocyclic ketene thioacetal derivatives. IX. Reactions of 1-[2,2-bis(methylthio)vinyl]pyridinium iodides with active methylene compounds  
Tominaga, Yoshinori; Fujito, Hiroshi; Mizuyama, Kazumichi; Matsuda, Yoshiro; Kobayashi, Goro  
Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan  
Chemical & Pharmaceutical Bulletin (1977), 25(7), 1519-27  
CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English  
GI

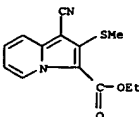


AB The reaction of 1-[2,2-bis(methylthio)vinyl]pyridinium iodide derivs. I (R = H, PhCO, EtO2C, H2NCO; R1-R3 = H, Me) with active methylene compds. in the presence of a base in EtOH, DMF, or Me2SO gave pyridinium allylides, e.g., II, indolizines, e.g., III, and N-[2,2-bis(methylthio)vinyl]-N-(6,6-disubstituted 1,3,5-hexatrienyl)amine derivs., e.g., (Me3)2C:CHNHCH:CHCH:CHCH:C(CN)2.

IT 53754-14-6P 59181-99-6P 64908-41-4P 64908-42-5P 64908-43-6P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

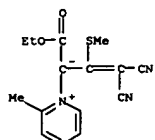
RN 53754-14-6 CAPLUS

CN 3-Indolizinecarboxylic acid, 1-cyano-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

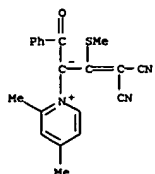


RN 59181-99-6 CAPLUS

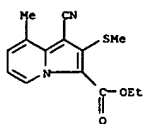
CN Pyridinium, 2-methyl-, 3,3-dicyano-1-(ethoxycarbonyl)-2-(methylthio)-2-propenylide (9CI) (CA INDEX NAME)



RN 64908-41-4 CAPLUS  
CN Pyridinium, 2,4-dimethyl-, 1-benzoyl-3,3-dicyano-2-(methylthio)-2-propenylide (9CI) (CA INDEX NAME)

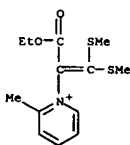


RN 64908-42-5 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-cyano-8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

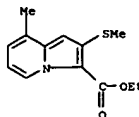


RN 64908-43-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 8-methyl-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)

RN 59181-95-2 CAPLUS  
CN Pyridinium, 1-[1-(ethoxycarbonyl)-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)

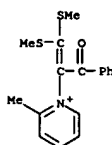


• I<sup>-</sup>



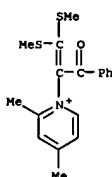
IT 59181-92-9 59181-94-1 59181-95-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with active methylene compound)

RN 59181-92-9 CAPLUS  
CN Pyridinium, 1-[1-benzoyl-2,2-bis(methylthio)ethenyl]-2-methyl-, iodide (9CI) (CA INDEX NAME)



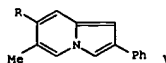
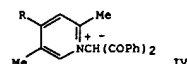
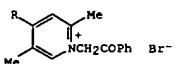
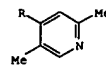
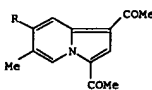
• I<sup>-</sup>

RN 59181-94-1 CAPLUS  
CN Pyridinium, 1-[1-benzoyl-2,2-bis(methylthio)ethenyl]-2,4-dimethyl-, iodide (9CI) (CA INDEX NAME)



• I<sup>-</sup>

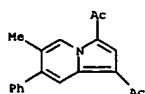
ACCESSION NUMBER: 1976:432794 CAPLUS  
DOCUMENT NUMBER: 85:32794  
TITLE: Synthesis of indolizines and pyridinium ylides from 4,5-disubstituted α-piccolines  
AUTHOR(S): Prostakov, N. S.; Galvoronskaya, L. A.; Sarata Mokhomon, Kamara M.; Zvolinskii, V. P.; Savina, A.  
A.: Makhsida, Munzer; Opaso Carrasco, Viktor H.  
CORPORATE SOURCE: Univ. Druzhby Nar. im. Lumumby, Moscow, USSR  
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (4), 506-10  
DOCUMENT TYPE: CODEN: KGSSAQ; ISSN: 0132-6244  
LANGUAGE: Journal  
OTHER SOURCE(S): Russian  
GI: CASREACT 85:32794



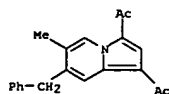
AB Indolizines I (R = Ph, PhCH<sub>2</sub>) were obtained in 20% yield by cyclization of lutidines (II) with Ac<sub>2</sub>O. Treatment of I with PhCOCH<sub>2</sub>Br gave 93% III (R = Ph, PhCH<sub>2</sub>) which were converted to ylides IV (R = Ph, PhCH<sub>2</sub>) in 40 and 34.5% yields. Treatment of III with KOH gave approx. 10% indolizines V (R = Ph, PhCH<sub>2</sub>).

IT 59647-38-0P 59700-11-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction with aldehydes)

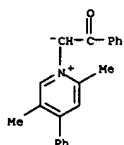
RN 59647-38-0 CAPLUS  
CN Ethanone, 1,1'-(6-methyl-7-phenyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



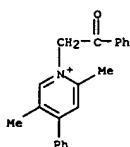
RN 59700-11-7 CAPLUS  
CN Ethanone, 1,1'-[6-methyl-7-(phenylmethyl)-1,3-indolizinediyl]bis- (9CI)  
(CA INDEX NAME)



IT 59647-42-6P 59647-43-7P 59647-44-8P  
59647-45-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 59647-42-6 CAPLUS  
CN Pyridinium, 2,5-dimethyl-4-phenyl-, 2-oxo-2-phenylethylidene (9CI) (CA  
INDEX NAME)

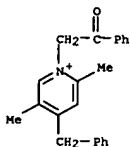


RN 59647-43-7 CAPLUS  
CN Pyridinium, 2,5-dimethyl-4-phenyl-, 1-benzoyl-2-oxo-2-phenylethylidene  
(9CI) (CA INDEX NAME)

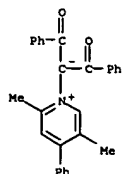


● Br<sup>-</sup>

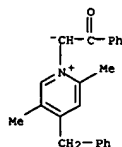
RN 59647-41-5 CAPLUS  
CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-(phenylmethyl)-,  
bromide (9CI) (CA INDEX NAME)



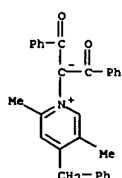
● Br<sup>-</sup>



RN 59647-44-8 CAPLUS  
CN Pyridinium, 2,5-dimethyl-4-(phenylmethyl)-, 2-oxo-2-phenylethylidene (9CI)  
(CA INDEX NAME)

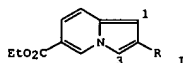


RN 59647-45-9 CAPLUS  
CN Pyridinium, 2,5-dimethyl-4-(phenylmethyl)-, 1-benzoyl-2-oxo-2-  
phenylethylidene (9CI) (CA INDEX NAME)

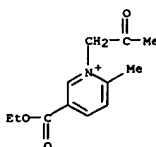


IT 54485-87-9P 59647-41-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation, cyclization, and ylide formation from)  
RN 54485-87-9 CAPLUS  
CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI)  
(CA INDEX NAME)

ACCESSION NUMBER: 1976:421063 CAPLUS  
DOCUMENT NUMBER: 85:21063  
TITLE: Indolizines. II. Synthesis and properties of  
2-methyl(aryl)-6-ethoxycarbonylindolizines  
AUTHOR(S): Loseva, T. S.; Yanina, A. D.; Mikhlin, E. E.;  
Yakhontov, L. N.  
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst. im.  
Ordzhonikidze, Moscow, USSR  
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (2),  
209-14  
CODEN: KGSSAQ; ISSN: 0132-6244  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
OTHER SOURCE(S): CASREACT 85:21063  
GI



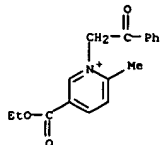
AB Condensation-cyclization of Et 6-methyl-3-pyridinecarboxylate with  
RCOCH2Br (R = Me, Ph, substituted phenyl) gave the title indolizines I,  
which underwent electrophilic substitution reactions to give 3-mono- and  
1,3-disubstituted derivs. of I. Thus, Vilsmeier formylation of I (R =  
Me) gave 47% of the corresponding 1,3-diformyl derivative, whereas I (R =  
Ph) gave 90.5% of the corresponding 3-formyl derivative  
IT 59603-53-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclization of)  
RN 59603-53-1 CAPLUS  
CN Pyridinium, 5-(ethoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI)  
(CA INDEX NAME)



● Br<sup>-</sup>

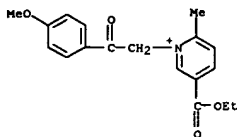
IT 59603-48-4P 59603-49-5P 59603-50-8P  
59603-51-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 (Reactant or reagent)  
 (prepn. and cyclization of)  
 RN 59603-48-4 CAPLUS  
 CN Pyridinium, 5-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

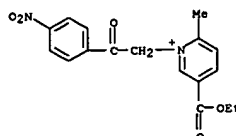
RN 59603-49-5 CAPLUS  
 CN Pyridinium,  
 5-(ethoxycarbonyl)-1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

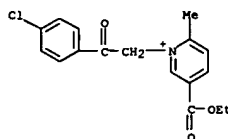
RN 59603-50-8 CAPLUS  
 CN Pyridinium,  
 5-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)

L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Br<sup>-</sup>

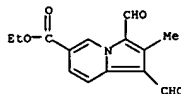
RN 59603-51-9 CAPLUS  
 CN Pyridinium,  
 1-[2-(4-chlorophenyl)-2-oxoethyl]-5-(ethoxycarbonyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)



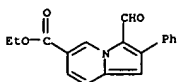
● Br<sup>-</sup>

IT 59603-63-3P 59603-64-4P 59603-65-5P  
 59603-66-6P 59603-67-7P 59603-68-8P  
 59603-69-9P 59603-70-2P 59603-71-3P  
 59603-72-4P 59603-73-5P 59603-74-6P  
 59603-75-7P 59603-76-8P 59603-77-9P  
 59603-78-0P 59603-79-1P 59603-80-4P  
 RL: SPW (synthetic preparation); PREP (Preparation)  
 (preparation of)

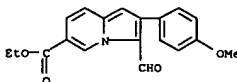
RN 59603-63-3 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 1,3-diformyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



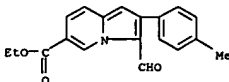
L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 59603-64-4 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-formyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



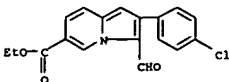
RN 59603-65-5 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-formyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 59603-66-6 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-formyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

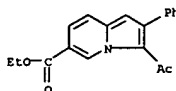


RN 59603-67-7 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 2-(4-chlorophenyl)-3-formyl-, ethyl ester (9CI) (CA INDEX NAME)

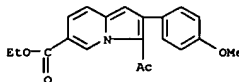


RN 59603-68-8 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

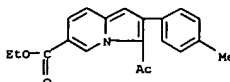
L15 ANSWER 72 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



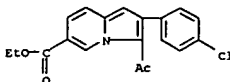
RN 59603-69-9 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 59603-70-2 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

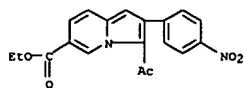


RN 59603-71-3 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

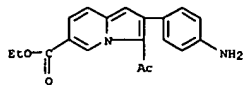


RN 59603-72-4 CAPLUS  
 CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

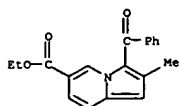




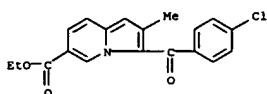
RN 59603-73-5 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-acetyl-2-(4-aminophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



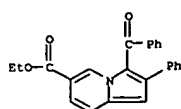
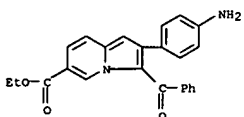
RN 59603-74-6 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



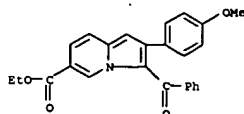
RN 59603-75-7 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



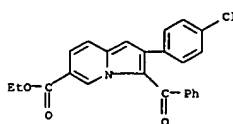
RN 59603-76-8 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



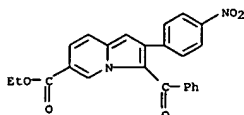
RN 59603-77-9 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 59603-78-0 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-(4-chlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

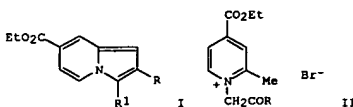


RN 59603-79-1 CAPLUS  
CN 6-Indolizinecarboxylic acid, 3-benzoyl-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 59603-80-4 CAPLUS  
CN 6-Indolizinecarboxylic acid, 2-(4-aminophenyl)-3-benzoyl-, ethyl ester (9CI) (CA INDEX NAME)

L15 ANSWER 73 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1976:179988 CAPLUS  
DOCUMENT NUMBER: 84:179988  
TITLE: Indolizines. III. Some electrophilic substitution reactions in 2-methyl(aryl)-7-ethoxycarbonylindolizine series  
AUTHOR(S): Loseva, T. S.; Yanina, A. D.; Mikhlin, E. E.; Yakhontov, L. N.  
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow, USSR  
SOURCE: Khimiya Geterotsiklicheskich Soedinenii (1976), (3), 348-51  
CODEN: KGSSAQ; ISSN: 0132-6244  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
OTHER SOURCE(S): CASREACT 84:179988  
GI

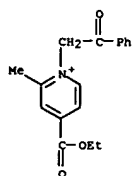


AB Indolizinecarboxylates (I, R = Ph, Me, p-MeOC<sub>6</sub>H<sub>4</sub>, p-BrC<sub>6</sub>H<sub>4</sub>, p-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>, R<sub>1</sub> = CHO, MeCO, PhCO, p-ClC<sub>6</sub>H<sub>4</sub>CO, CH<sub>2</sub>NMe<sub>2</sub>) were obtained in 42-95% yields in 3 steps from II by treatment with aqueous NH<sub>3</sub>, followed by cyclization to give

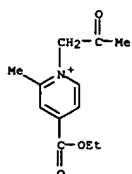
I (R<sub>1</sub> = H) and subsequent electrophilic substitution.  
IT 54342-81-3P 54387-38-1P 59195-35-6P  
59195-36-7P 59195-37-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and inner salt formation from)

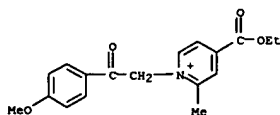
RN 54342-81-3 CAPLUS  
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

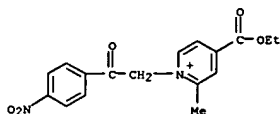
RN 54387-38-1 CAPLUS  
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

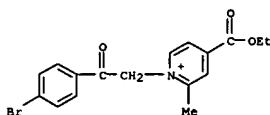
RN 59195-35-6 CAPLUS  
CN Pyridinium, 4-(ethoxycarbonyl)-1-[2-(4-methoxyphenyl)-2-oxoethyl]-2-methyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

RN 59195-36-7 CAPLUS  
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-[2-(4-nitrophenyl)-2-oxoethyl]-, bromide (9CI) (CA INDEX NAME)

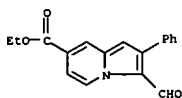
● Br<sup>-</sup>

RN 59195-37-8 CAPLUS  
CN Pyridinium, 1-[2-(4-bromophenyl)-2-oxoethyl]-4-(ethoxycarbonyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

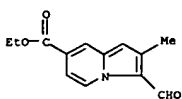
● Br<sup>-</sup>

IT 59195-45-8P 59195-46-9P 59195-47-0P  
59195-48-1P 59195-49-2P 59195-50-5P  
59195-51-6P 59195-52-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)

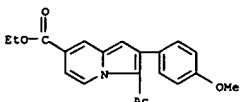
(prepn. of)  
RN 59195-45-8 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-formyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



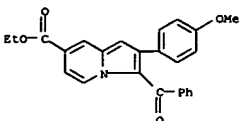
RN 59195-46-9 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-formyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 59195-47-0 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-acetyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

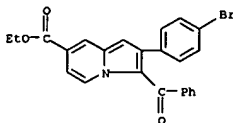


RN 59195-48-1 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-benzoyl-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

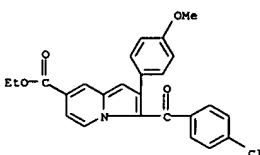


RN 59195-49-2 CAPLUS

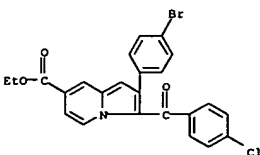
7-Indolizinecarboxylic acid, 3-benzoyl-2-(4-bromophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



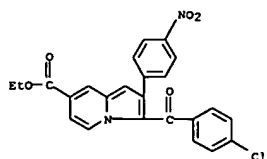
RN 59195-50-5 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-(4-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



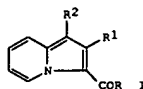
RN 59195-51-6 CAPLUS  
CN 7-Indolizinecarboxylic acid, 2-(4-bromophenyl)-3-(4-chlorobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)



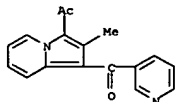
RN 59195-52-7 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-(4-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)



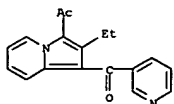
ACCESSION NUMBER: 1976:150535 CAPLUS  
 DOCUMENT NUMBER: 84:150535  
 TITLE: Indoliziny pyridylketones. Synthesis and evaluation of their antiinflammatory and antalgic activities  
 AUTHOR(S): Rosseels, Gilbert; Inion, Henri; Matteazzi, Jean R.; Peiren, Maurits; Prost, Maurice; Descamps, Marcel; Tornay, Chantal; Colot, Michel; Charlier, Robert  
 CORPORATE SOURCE: Cent. Rech., S.A. Labaz N.V., Brussels, Belg.  
 SOURCE: European Journal of Medicinal Chemistry (1975), 10(6),  
 579-84  
 CODEN: EJMCA5; ISSN: 0223-5234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 OTHER SOURCE(S): CASREACT 84:150535  
 GI



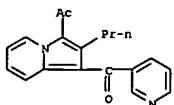
AB Ketones I (R = 2-, 3-, 4-pyridyl; R1 = Me, Et, Pr, CHMe2, Bu, Ph, 4-MeOC6H4, 4-ClC6H4, 4-FC6H4; R2 = H, CH2CO2H, Ac, CH2NMe2, CH2CN) were prepared e.g. by treating 3-unsubstituted indolizines with pyridylcarbonyl chlorides. I (R = 3-pyridyl, R1 = Et, Pr, R2 = H) had analgesic ED50 in the HOAc writhing test of 50 and 30 mg/kg, resp., but had ED50 of .apprx.350 mg/kg in the electroshock test.  
 IT 58963-10-3P 58963-11-4P 58963-12-5P  
 58963-13-6P 58963-14-7P 58963-15-8P  
 58963-16-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and deacetylation of)  
 RN 58963-10-3 CAPLUS  
 CN Ethanone, 1-[2-methyl-1-(3-pyridinylcarbonyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



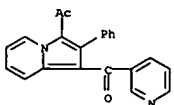
RN 58963-11-4 CAPLUS  
 CN Ethanone, 1-[2-ethyl-1-(3-pyridinylcarbonyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



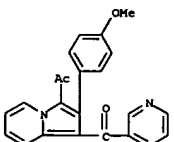
RN 58963-12-5 CAPLUS  
 CN Ethanone, 1-[2-propyl-1-(3-pyridinylcarbonyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



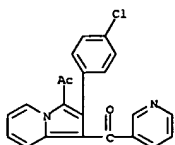
RN 58963-13-6 CAPLUS  
 CN Ethanone, 1-[2-phenyl-1-(3-pyridinylcarbonyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



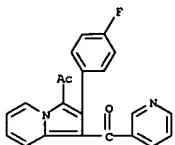
RN 58963-14-7 CAPLUS  
 CN Ethanone, 1-[2-(4-methoxyphenyl)-1-(3-pyridinylcarbonyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



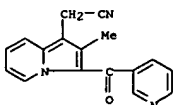
RN 58963-15-8 CAPLUS  
 CN Ethanone, 1-[2-(4-chlorophenyl)-1-(3-pyridinylcarbonyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



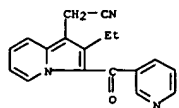
RN 58963-16-9 CAPLUS  
 CN Ethanone, 1-[2-(4-fluorophenyl)-1-(3-pyridinylcarbonyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



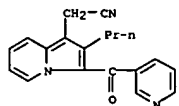
IT 58963-41-0P 58963-42-1P 58963-43-2P  
 58963-44-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis of)  
 RN 58963-41-0 CAPLUS  
 CN 1-Indolizineacetonitrile, 2-methyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



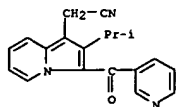
RN 58963-42-1 CAPLUS  
 CN 1-Indolizineacetonitrile, 2-ethyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



RN 58963-43-2 CAPLUS  
CN 1-Indolizineacetonitrile, 2-propyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)

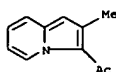


RN 58963-44-3 CAPLUS  
CN 1-Indolizineacetonitrile, 2-(1-methylethyl)-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)

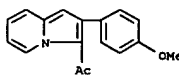


IT 58963-37-4P 58963-38-5P 58963-39-6P  
58963-40-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, with cyanide)  
RN 58963-37-4 CAPLUS  
CN Methanone,  
[1-[(dimethylamino)methyl]-2-methyl-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)

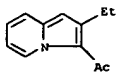
L15 ANSWER 74 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and reaction of, with nicotinoyl chloride)  
RN 24004-45-3 CAPLUS  
CN Ethanone, 1-(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



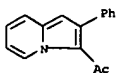
RN 26573-47-7 CAPLUS  
CN Ethanone, 1-[2-(4-methoxyphenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



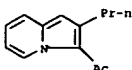
RN 36944-76-0 CAPLUS  
CN Ethanone, 1-(2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



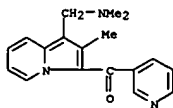
RN 38320-58-0 CAPLUS  
CN Ethanone, 1-(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



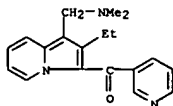
RN 58963-32-9 CAPLUS  
CN Ethanone, 1-(2-propyl-3-indoliziny)- (9CI) (CA INDEX NAME)



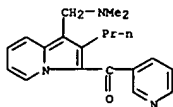
RN 58963-33-0 CAPLUS  
CN Ethanone, 1-[2-(1-methylethyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



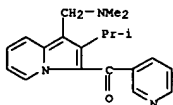
RN 58963-38-5 CAPLUS  
CN Methanone, [1-[(dimethylamino)methyl]-2-ethyl-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)



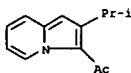
RN 58963-39-6 CAPLUS  
CN Methanone,  
[1-[(dimethylamino)methyl]-2-propyl-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)



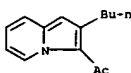
RN 58963-40-9 CAPLUS  
CN Methanone, [1-[(dimethylamino)methyl]-2-(1-methylethyl)-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)



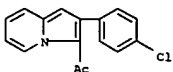
IT 24004-45-3P 26573-47-7P 36944-76-0P  
38320-58-0P 58963-32-9P 58963-33-0P  
58963-34-1P 58963-35-2P 58963-36-3P



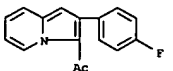
RN 58963-34-1 CAPLUS  
CN Ethanone, 1-(2-butyl-3-indoliziny)- (9CI) (CA INDEX NAME)



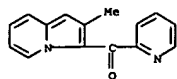
RN 58963-35-2 CAPLUS  
CN Ethanone, 1-[2-(4-chlorophenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



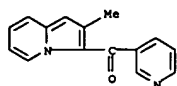
RN 58963-36-3 CAPLUS  
CN Ethanone, 1-[2-(4-fluorophenyl)-3-indoliziny]- (9CI) (CA INDEX NAME)



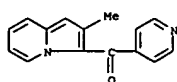
IT 58962-94-0P 58962-95-1P 58962-96-2P  
58962-97-3P 58962-98-4P 58962-99-5P  
58963-00-1P 58963-01-2P 58963-02-3P  
58963-03-4P 58963-04-5P 58963-05-6P  
58963-06-7P 58963-07-8P 58963-08-9P  
58963-09-0P 58963-24-9P 58963-25-0P  
58963-26-1P 58963-27-2P 58982-21-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 58962-94-0 CAPLUS  
CN Methanone, (2-methyl-3-indoliziny)-2-pyridinyl- (9CI) (CA INDEX NAME)



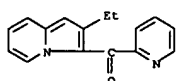
RN 58962-95-1 CAPLUS  
CN Methanone, (2-methyl-3-indoliziny)-3-pyridinyl- (9CI) (CA INDEX NAME)



RN 58962-96-2 CAPLUS  
CN Methanone, (2-methyl-3-indoliziny)-4-pyridinyl- (9CI) (CA INDEX NAME)

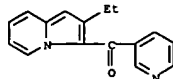


RN 58962-97-3 CAPLUS  
CN Methanone, (2-ethyl-3-indoliziny)-2-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)

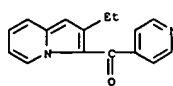


● HCl

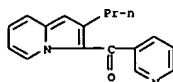
RN 58962-98-4 CAPLUS  
CN Methanone, (2-ethyl-3-indoliziny)-3-pyridinyl- (9CI) (CA INDEX NAME)



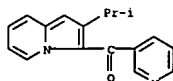
RN 58962-99-5 CAPLUS  
CN Methanone, (2-ethyl-3-indoliziny)-4-pyridinyl- (9CI) (CA INDEX NAME)



RN 58963-00-1 CAPLUS  
CN Methanone, (2-propyl-3-indoliziny)-3-pyridinyl- (9CI) (CA INDEX NAME)

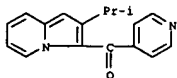


RN 58963-01-2 CAPLUS  
CN Methanone, [2-(1-methylethyl)-3-indoliziny]-3-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)

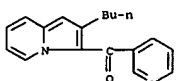


● HCl

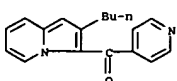
RN 58963-02-3 CAPLUS  
CN Methanone, [2-(1-methylethyl)-3-indoliziny]-4-pyridinyl- (9CI) (CA INDEX NAME)



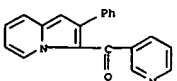
RN 58963-03-4 CAPLUS  
CN Methanone, (2-butyl-3-indoliziny)-3-pyridinyl- (9CI) (CA INDEX NAME)



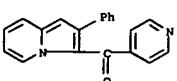
RN 58963-04-5 CAPLUS  
CN Methanone, (2-butyl-3-indoliziny)-4-pyridinyl- (9CI) (CA INDEX NAME)



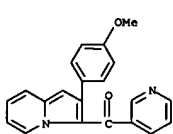
RN 58963-05-6 CAPLUS  
CN Methanone, (2-phenyl-3-indoliziny)-3-pyridinyl- (9CI) (CA INDEX NAME)



RN 58963-06-7 CAPLUS  
CN Methanone, (2-phenyl-3-indoliziny)-4-pyridinyl- (9CI) (CA INDEX NAME)

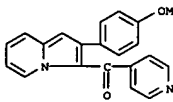


RN 58963-07-8 CAPLUS  
CN Methanone, [2-(4-methoxyphenyl)-3-indoliziny]-3-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)



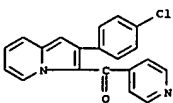
● HCl

RN 58963-08-9 CAPLUS  
CN Methanone, [2-(4-methoxyphenyl)-3-indoliziny]-4-pyridinyl-, monohydrochloride (9CI) (CA INDEX NAME)

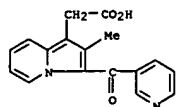


● HCl

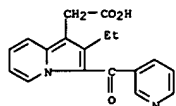
RN 58963-09-0 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny]-4-pyridinyl- (9CI) (CA INDEX NAME)



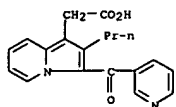
RN 58963-24-9 CAPLUS  
CN 1-Indolizineacetic acid, 2-methyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



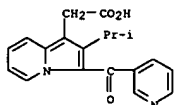
RN 58963-25-0 CAPLUS  
CN 1-Indolizineacetic acid, 2-ethyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



RN 58963-26-1 CAPLUS  
CN 1-Indolizineacetic acid, 2-propyl-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



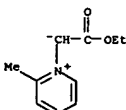
RN 58963-27-2 CAPLUS  
CN 1-Indolizineacetic acid, 2-(1-methylethyl)-3-(3-pyridinylcarbonyl)- (9CI) (CA INDEX NAME)



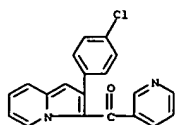
RN 58982-21-1 CAPLUS  
CN Methanone, [2-(4-chlorophenyl)-3-indoliziny]-3-pyridinyl- (9CI) (CA INDEX NAME)

## L15 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN

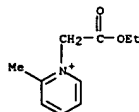
ACCESSION NUMBER: 1975:170618 CAPLUS  
DOCUMENT NUMBER: 82:170618  
TITLE: Synthesis of indolizines by intramolecular cyclization of pyridinium allylides  
AUTHOR(S): Tamura, Yasumitsu; Sumida, Yoshio; Haruki, Shinichiro;  
CORPORATE SOURCE: Ikeda, Masazumi  
SOURCE: Fac. Pharm. Sci., Osaka Univ., Osaka, Japan  
Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (6), 575-9  
CODEN: JCPRB4; ISSN: 0300-922X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 82:170618  
GI For diagram(s), see printed CA issue.  
AB Pyridinium bromides I, in EtOH-K2CO3, reacted with 3-chlorocyclohex-2-enones and EtOCH2C(COMe)2 or EtOCH2C(CO2Et)2 to give the corresponding pyridinium (ethoxycarbonyl)(3-oxocyclohexen-1-yl)methylides II-IV and 3,3-diacyl-1-(ethoxycarbonyl)alkylides V-VIII, resp. The ylides II-V and VII on refluxing in xylene underwent intramol. cyclization to give the corresponding indolizines IX-XIII resp. However, similar treatment of the ylides VI and VIII gave XIV and XIII, resp. The mechanism for the formation of indolizine derivs. was discussed.  
IT 55814-01-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction with chlorocyclohexenones, (ethoxymethylene) pentanedione, and di-Et (ethoxymethylene)malonate)  
RN 55814-01-2 CAPLUS  
CN Pyridinium, 2-methyl-, 2-ethoxy-2-oxoethylide (9CI) (CA INDEX NAME)



IT 55814-04-5P 55814-07-8P 55814-09-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and thermal intramol. cyclization of, indolizines by)  
RN 55814-04-5 CAPLUS  
CN Pyridinium, 2-methyl-, 2-ethoxy-2-oxo-1-(3-oxo-1-cyclohexen-1-yl)ethylide (9CI) (CA INDEX NAME)

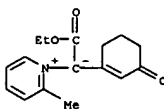


IT 58963-28-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with sodium alkanoates)  
RN 58963-28-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

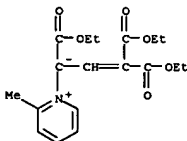


● Cl<sup>-</sup>

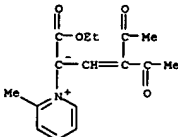
## L15 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



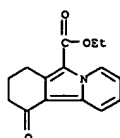
RN 55814-07-8 CAPLUS  
CN Pyridinium, 2-methyl-, 4-ethoxy-1,3-bis(ethoxycarbonyl)-4-oxo-2-butenylide (9CI) (CA INDEX NAME)



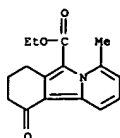
RN 55814-09-0 CAPLUS  
CN Pyridinium, 2-methyl-, 3-acetyl-1-(ethoxycarbonyl)-4-oxo-2-pentenylide (9CI) (CA INDEX NAME)



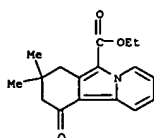
IT 55814-10-3P 55814-11-4P 55814-12-5P  
55814-13-6P 55814-14-7P 55814-15-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 55814-10-3 CAPLUS  
CN Pyrido[2,1-a]isoindole-6-carboxylic acid, 7,8,9,10-tetrahydro-10-oxo-, ethyl ester (9CI) (CA INDEX NAME)



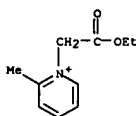
RN 55814-11-4 CAPLUS  
CN Pyrido[2,1-a]isoindole-6-carboxylic acid,  
7,8,9,10-tetrahydro-4-methyl-10-  
oxo-, ethyl ester (9CI) (CA INDEX NAME)



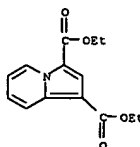
RN 55814-12-5 CAPLUS  
CN Pyrido[2,1-a]isoindole-6-carboxylic acid,  
7,8,9,10-tetrahydro-8,8-dimethyl-  
10-oxo-, ethyl ester (9CI) (CA INDEX NAME)



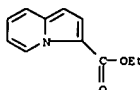
RN 55814-13-6 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, diethyl ester (9CI) (CA INDEX NAME)



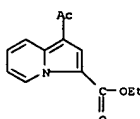
● Br<sup>-</sup>



RN 55814-14-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, ethyl ester (9CI) (CA INDEX NAME)

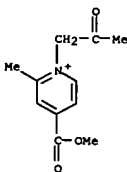


RN 55814-15-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-, ethyl ester (9CI) (CA INDEX NAME)



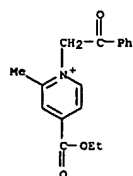
IT 55814-02-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction with potassium carbonate)  
RN 55814-02-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2-methyl-, bromide (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1975:16671 CAPLUS  
DOCUMENT NUMBER: 82:16671  
TITLE: Synthesis and properties of 2-methyl(aryl)-7-ethoxy carbonylindolizines  
AUTHOR(S): Mikhlin, E. E.; Yanina, A. D.; Loseva, T. S.; Turchin, K. F.; Yakhontov, L. N.  
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst. im. Ordzhonikidze, Moscow, USSR  
SOURCE: Khimiya Geterotsiklichesikh Soedinenii (1974), (7), 977-81  
CODEN: KGSSAQ; ISSN: 0132-6244  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
GI For diagram(s), see printed CA Issue.  
AB Alkylation of the isonicotinates I (R = Me, Et) with BrCH<sub>2</sub>COCH<sub>3</sub> and BrCH<sub>2</sub>COPh gave the pyridinium bromides II (R<sub>1</sub> = Me, Ph; resp.); cyclization of II (R = Et; R<sub>1</sub> = Me, Ph) in refluxing EtOH containing NaHCO<sub>3</sub> yielded Et 2-methyl-7-indolizinecarboxyl-ate (III) and 2-phenyl-7-indolizinecarboxylate, resp. Successive treatment of II (R = Et, R = Ph) with NH<sub>4</sub>OH and refluxing Me<sub>2</sub>CHOH gave Et 2-phenyl-7-indolizinecarboxylate (IV). Acylation of III and IV by Ac<sub>2</sub>O, BzCl, and 4-ClC<sub>6</sub>H<sub>4</sub>COCl yielded the acylindolizines V (R<sub>2</sub> = Me, Ph; R<sub>3</sub> = Me, Ph, 4-ClC<sub>6</sub>H<sub>4</sub>).  
IT 54342-80-2P 54342-81-3P 54387-38-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)  
RN 54342-80-2 CAPLUS  
CN Pyridinium, 4-(methoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

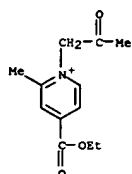


● Br<sup>-</sup>

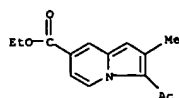
RN 54342-81-3 CAPLUS  
CN Pyridinium, 4-(methoxycarbonyl)-2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

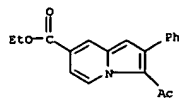
RN 54387-38-1 CAPLUS  
CN Pyridinium, 4-(ethoxycarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

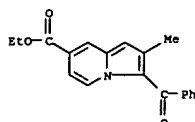
IT 54342-91-5P 54342-92-6P 54342-93-7P  
54342-94-8P 54342-95-9P 54342-96-0P  
54342-97-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 54342-91-5 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



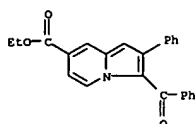
RN 54342-92-6 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-acetyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



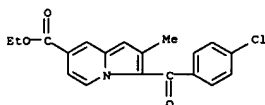
RN 54342-93-7 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-benzoyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



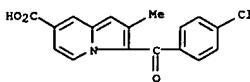
RN 54342-94-8 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-benzoyl-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



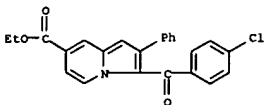
RN 54342-95-9 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



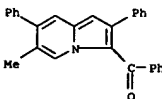
RN 54342-96-0 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



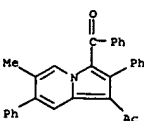
RN 54342-97-1 CAPLUS  
CN 7-Indolizinecarboxylic acid, 3-(4-chlorobenzoyl)-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1974:520371 CAPLUS  
DOCUMENT NUMBER: 81:120371  
TITLE: Synthesis of substituted indolizines from 1-phenacyl-5-methyl-4-phenyl-2-phenacylidene-1,2-dihydropyridine  
AUTHOR(S): Prostakov, N. S.; Baktibaev, O. B.  
CORPORATE SOURCE: Univ. Druzh. Nar. im. Lummby, Moscow, USSR  
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1974), (6), 788-91  
CODEN: KGSSAQ; ISSN: 0132-6244  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
GI For diagram(s), see printed CA Issue.  
AB Reaction of 2,5-dimethyl-4-phenylpyridine with BrCH<sub>2</sub>COPh gave 97% 2,5-dimethyl-1-phenacyl-4-phenylpyridinium bromide which when treated with BzCl gave 95% of the pyridine I. Heating I with Ac<sub>2</sub>O gave a mixture of the indolizines II, III and IV. Treatment of 6-methyl-2,7-diphenylindolizine with BzCl gave IV. Reaction of I with HCONH<sub>2</sub> gave a mixture of II and IV.  
IT 53971-44-1P 53971-46-3P 54485-87-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
RN 53971-44-1 CAPLUS  
CN Methanone, (6-methyl-2,7-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

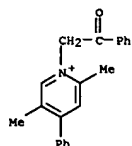


RN 53971-46-3 CAPLUS  
CN Ethanone, 1-(3-benzoyl-6-methyl-2,7-diphenyl-1-indoliziny)- (9CI) (CA INDEX NAME)

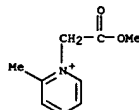


RN 54485-87-9 CAPLUS  
CN Pyridinium, 2,5-dimethyl-1-(2-oxo-2-phenylethyl)-4-phenyl-, bromide (9CI) (CA INDEX NAME)

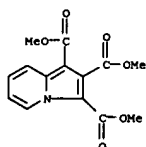


● Br<sup>-</sup>

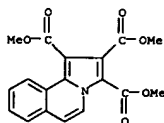
L15 ANSWER 78 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1974:425517 CAPLUS  
 DOCUMENT NUMBER: 81:25517  
 TITLE: Preparation of stable 2,3-dihydroindolizines by the reactions of pyridinium methylides with various acrylates  
 AUTHOR(S): Kakehi, Akikazu; Ito, Suketaka  
 CORPORATE SOURCE: Fac. Eng., Shinshu Univ., Nagano, Japan  
 SOURCE: Bulletin of the Chemical Society of Japan (1974), 47(4), 938-41  
 CODEN: BCSJAB; ISSN: 0009-2673  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB Pyridinium methoxycarbonylmethylides, readily obtainable from their corresponding salts I reacted with various acrylates to afford indolizine-1,3-dicarboxylates II (R = H, 5-Me, 7-Me, 7,8-CH:CHCH:CH; R1 = CO2Me, Ph, Me) in moderate yields. II were stable and were not aromatized by heating. Treatment of II with Pb(OAc)4 gave the corresponding indolizines (III) in good yields.  
 IT 52817-23-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and cyclization with acrylates)  
 RN 52817-23-9 CAPLUS  
 CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

IT 4491-43-4P 7593-63-7P 37129-40-1P  
 52817-26-2P 52817-27-3P 52817-28-4P  
 52817-29-5P 52817-30-8P 52817-31-9P  
 52817-32-0P 52817-33-1P 52817-34-2P  
 52817-35-3P 52817-36-4P 52817-37-5P  
 52817-38-6P 52817-39-7P 52817-40-0P  
 52817-41-1P 52817-42-2P 52817-43-3P  
 52817-44-4P 52817-45-5P 52817-46-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
 RN 4491-43-4 CAPLUS  
 CN 1,2,3-Indolizinetetracarboxylic acid, trimethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)

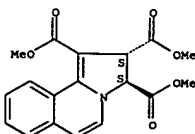


RN 7593-63-7 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, trimethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



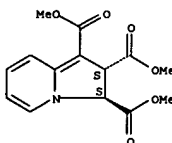
RN 37129-40-1 CAPLUS  
 CN Pyrrolo[2,1-a]isoquinoline-1,2,3-tricarboxylic acid, 2,3-dihydro-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



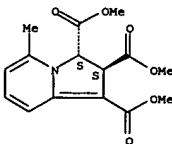
RN 52817-26-2 CAPLUS  
 CN 1,2,3-Indolizinetetracarboxylic acid, 2,3-dihydro-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



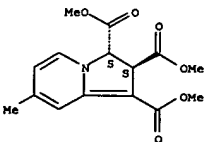
RN 52817-27-3 CAPLUS  
 CN 1,2,3-Indolizinetetracarboxylic acid, 2,3-dihydro-5-methyl-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



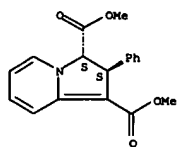
RN 52817-28-4 CAPLUS  
 CN 1,2,3-Indolizinetetracarboxylic acid, 2,3-dihydro-7-methyl-, trimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



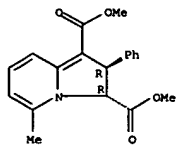
RN 52817-29-5 CAPLUS  
 CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



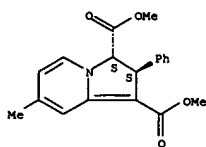
RN 52817-30-8 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-5-methyl-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



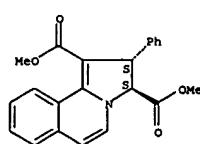
RN 52817-31-9 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-7-methyl-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



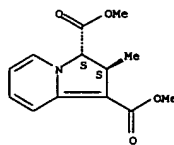
RN 52817-32-0 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2,3-dihydro-2-phenyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



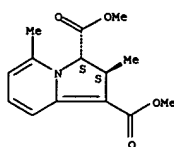
RN 52817-33-1 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2-methyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



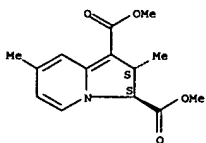
RN 52817-34-2 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2,5-dimethyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



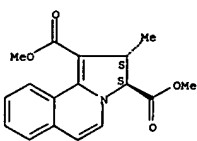
RN 52817-35-3 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2,3-dihydro-2,7-dimethyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

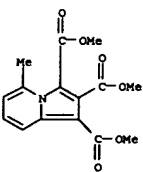


RN 52817-36-4 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2,3-dihydro-2-methyl-, dimethyl ester, trans- (9CI) (CA INDEX NAME)

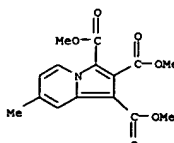
Relative stereochemistry.



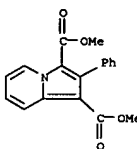
RN 52817-37-5 CAPLUS  
CN 1,2,3-Indolizinetricarboxylic acid, 5-methyl-, trimethyl ester (9CI) (CA INDEX NAME)



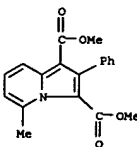
RN 52817-38-6 CAPLUS  
CN 1,2,3-Indolizinetricarboxylic acid, 7-methyl-, trimethyl ester (9CI) (CA INDEX NAME)



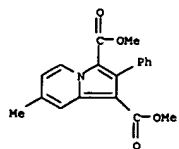
RN 52817-39-7 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



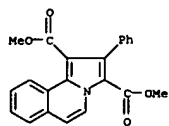
RN 52817-40-0 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 5-methyl-2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



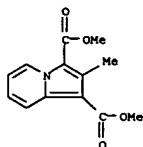
RN 52817-41-1 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 7-methyl-2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



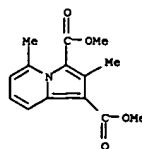
RN 52817-42-2 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



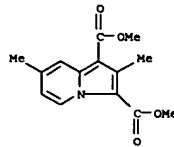
RN 52817-43-3 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



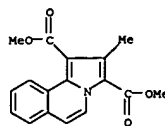
RN 52817-44-4 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2,5-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 52817-45-5 CAPLUS  
CN 1,3-Indolizinedicarboxylic acid, 2,7-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)

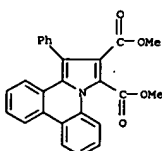


RN 52817-46-6 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,3-dicarboxylic acid, 2-methyl-, dimethyl ester (9CI) (CA INDEX NAME)

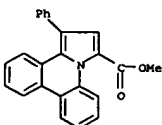


ACCESSION NUMBER: 1974:145980 CAPLUS  
DOCUMENT NUMBER: 80:145980  
TITLE: Addition reactions of heterocyclic compounds. LIV. Rotational isomerism of 6-alkyl-5-(oxidovinyl)phenanthridiniums. Investigation by variable temperature nuclear magnetic resonance spectroscopy  
AUTHOR(S): Acheson, R. Morrin; Selby, Ian A.  
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, UK  
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1974), (4), 423-30  
CODEN: JCPRB4; ISSN: 0300-922X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI For diagram(s), see printed CA Issue.

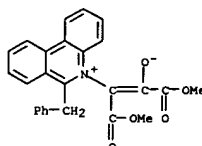
AB 6-Aralkyl-5-(oxidovinyl)phenanthridiniums (I; R = H, R1 = CO2Me, H; R = Me, R1 = CO2Me), prepared from the corresponding phenanthridine 5-oxides and MeO2CC.tplbond.CR (R = CO2Me, H), were shown to exhibit rotational isomerism by variable temperature NMR spectroscopy. I (R = H, R1 = CO2Me, H) were converted into 1-phenylpyrrolo[1,2-f]phenanthridines.  
IT 52648-50-7P 52648-53-0P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
RN 52648-50-7 CAPLUS  
CN Pyrrolo[1,2-f]phenanthridine-2,3-dicarboxylic acid, 1-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



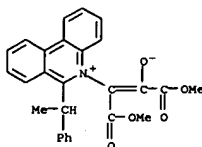
RN 52648-53-0 CAPLUS  
CN Pyrrolo[1,2-f]phenanthridine-3-carboxylic acid, 1-phenyl-, methyl ester (9CI) (CA INDEX NAME)



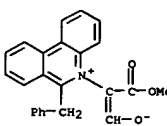
IT 26905-54-4 26905-55-5 52648-46-1  
RL: PRP (Properties) (rotational isomerism of, NMR in relation to)  
RN 26905-54-4 CAPLUS  
CN Phenanthridinium, 5-[2-hydroxy-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-6-(phenylethyl)-, inner salt (9CI) (CA INDEX NAME)



RN 26905-55-5 CAPLUS  
CN Phenanthridinium, 5-[2-hydroxy-3-methoxy-1-(methoxycarbonyl)-3-oxo-1-propenyl]-6-(1-phenylethyl)-, inner salt (9CI) (CA INDEX NAME)

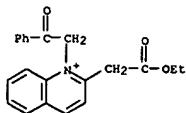


RN 52648-46-1 CAPLUS  
CN Phenanthridinium, 5-[2-hydroxy-1-(methoxycarbonyl)ethenyl]-6-(phenylethyl)-, inner salt (9CI) (CA INDEX NAME)



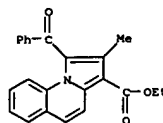
L15 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1974:120721 CAPLUS  
 DOCUMENT NUMBER: 80:120721  
 TITLE: Pyrrolo[1,2-a]quinolines. Reinvestigation  
 AUTHOR(S): Irwin, W. J.; Wibberley, D. G.  
 CORPORATE SOURCE: Dep. Pharm., Univ. Aston, Birmingham, UK  
 SOURCE: Journal of the Chemical Society, Perkin Transactions  
 1: Organic and Bio-Organic Chemistry (1972-1999)  
 (1974), (2), 250-2  
 CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB Et 2-quinolylacetate (I; R = H, R1 = CO2Et) with PhCOCH2Br gave, after treatment with HCl and NaOH, I (R = CO2Et, R1 = CH2COPh) which with Ac2O gave 26% pyrroloquinoline (II; R = Me, R1 = PhCO) and 20% II (R = Ph, R1 = H).  
 IT 52249-54-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (structure vs. 2-[2-benzoyl-1-(ethoxycarbonyl)ethyl]quinoline hydrobromide, from reaction of Et quinolylacetate with phenacyl bromide)  
 RN 52249-54-4 CAPLUS  
 CN Quinolinium, 2-(2-ethoxy-2-oxoethyl)-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)



IT 13526-93-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (structure vs. 2-benzoyl-3-(ethoxycarbonyl)-1-methylpyrrolo[1,2-a]quinoline, from reaction of Et quinolylacetate with phenacyl bromide)  
 RN 13526-93-7 CAPLUS  
 CN Pyrrolo[1,2-a]quinoline-3-carboxylic acid, 1-benzoyl-2-methyl-, ethyl ester (8CI, 9CI) (CA INDEX NAME)

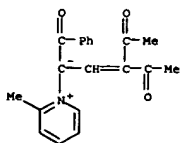
L15 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



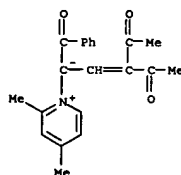
L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1974:36969 CAPLUS  
 DOCUMENT NUMBER: 80:36969  
 TITLE: Synthesis and thermal reaction of pyridinium 3,3-diacetyl-1-benzoylallylides[3,3-diacetyl-1-benzoyl-1-(1-pyridinio)prop-2-enides]. Formation of indolizine derivatives  
 AUTHOR(S): Tamura, Yasumitsu; Sumida, Yoshio; Ikeda, Masazumi  
 CORPORATE SOURCE: Fac. Pharm. Sci., Osaka Univ., Osaka, Japan  
 SOURCE: Journal of the Chemical Society, Perkin Transactions  
 1: Organic and Bio-Organic Chemistry (1972-1999)  
 (1973), (19), 2091-5  
 CODEN: JCPRB4; ISSN: 0300-922X

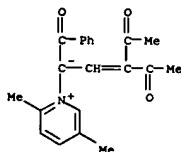
DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB Pyridinium phenacylides with 2,2-diacetyl-1-ethoxyethylenes gave pyridinium 3,3-diacetyl-1-benzoyl-allylides. E.g. pyridinium phenacylide with EtOCH(COMe)2 gave 75% allylide (I, R = H). I (R = H) in refluxing Me2C6H4 gave 6% indolizine (II; R = H, R1 = Br). 2-Methyl deriva. of I refluxing Me2C6H4 gave mainly 1-acetyl-2-phenylindolizines. E.g. I (R = Me) gave 30% II (R = Ph, R1 = CH2CHCOMe) and 2% II (R = H, R1 = Br).  
 IT 51386-33-5P 51386-34-6P 51386-35-7P  
 51386-41-5P 51386-42-6P 51386-46-0P  
 51386-49-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 51386-33-5 CAPLUS  
 CN Pyridinium, 2-methyl-, 3-acetyl-1-benzoyl-4-oxo-2-pentenylide (9CI) (CA INDEX NAME)



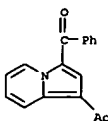
RN 51386-34-6 CAPLUS  
 CN Pyridinium, 2,4-dimethyl-, 3-acetyl-1-benzoyl-4-oxo-2-pentenylide (9CI) (CA INDEX NAME)



RN 51386-35-7 CAPLUS  
 CN Pyridinium, 2,5-dimethyl-, 3-acetyl-1-benzoyl-4-oxo-2-pentenylide (9CI) (CA INDEX NAME)

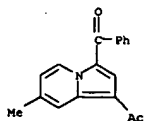


RN 51386-41-5 CAPLUS  
 CN Ethanone, 1-(3-benzoyl-1-indoliziny)- (9CI) (CA INDEX NAME)

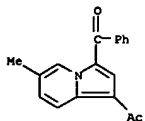


RN 51386-42-6 CAPLUS  
 CN Ethanone, 1-(3-benzoyl-7-methyl-1-indoliziny)- (9CI) (CA INDEX NAME)

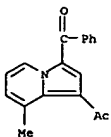
L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



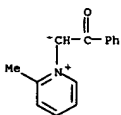
RN 51386-46-0 CAPLUS  
CN Ethanone, 1-(3-benzoyl-6-methyl-1-indoliziny)- (9CI) (CA INDEX NAME)



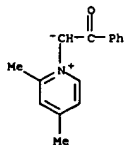
RN 51386-49-3 CAPLUS  
CN Ethanone, 1-(3-benzoyl-8-methyl-1-indoliziny)- (9CI) (CA INDEX NAME)



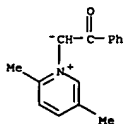
IT 51386-37-9 51386-38-0 51386-39-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with (ethoxymethylene)pentanedione)  
RN 51386-37-9 CAPLUS  
CN Pyridinium, 2-methyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)



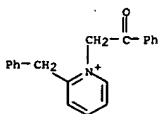
L15 ANSWER 81 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
RN 51386-38-0 CAPLUS  
CN Pyridinium, 2,4-dimethyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)



RN 51386-39-1 CAPLUS  
CN Pyridinium, 2,5-dimethyl-, 2-oxo-2-phenylethylide (9CI) (CA INDEX NAME)

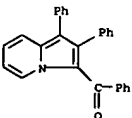


L15 ANSWER 82 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1973:147883 CAPLUS  
DOCUMENT NUMBER: 78:147883  
TITLE: Reaction of acyl-substituted sulfonium and pyridinium ylides with diphenylthiirene dioxide  
AUTHOR(S): Hayashi, Yosio; Nakamura, Hideo; Nozaki, Hitosi  
CORPORATE SOURCE: Dep. Ind. Chem., Kyoto Univ., Kyoto, Japan  
SOURCE: Bulletin of the Chemical Society of Japan (1973), 46(2), 667-9  
CODEN: BCSJAB; ISSN: 0009-2673  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI For diagram(s), see printed CA Issue.  
AB Diphenylthiirene dioxide (I) was treated with Me2S+C-HCOPh to give 67% PhC.tpbond.CPH, 13% an oxathin dioxide (II, R = H), 13% a thieth dioxide (III, R = H) and 12% a dithiin (IV, R = H). II, III, and IV (R = Me) were similarly prepared. Pyridinium phenacylide and I gave 46% 3-benzoyl-1,2-diphenylindolizine (V). 3-Benzoyl-1,2-diphenylpyrrolo[2,1-a]isoquinoline (VI) and 1-benzoyl-2,3-diphenylpyrrolo[1,2-a]quinoline (VII) were similarly prepared.  
IT 1094-77-5P 36944-59-9P 40448-75-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 1094-77-5 CAPLUS  
CN Pyridinium, 1-(2-oxo-2-phenylethyl)-2-(phenylmethyl)-, bromide (9CI) (CA INDEX NAME)



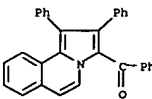
● Br<sup>-</sup>

RN 36944-59-9 CAPLUS  
CN Methanone, (1,2-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)

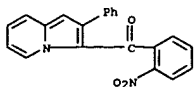


RN 40448-75-7 CAPLUS  
CN Methanone, (1,2-diphenylpyrrolo[2,1-a]isoquinolin-3-yl)phenyl- (9CI) (CA INDEX NAME)

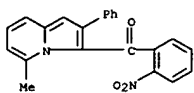
L15 ANSWER 82 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
INDEX NAME)



L15 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1972:501345 CAPLUS  
 DOCUMENT NUMBER: 77:101345  
 TITLE: Cyclic compounds containing hetero-bridge atoms.  
 VIII.  
 Benzoindolizines  
 AUTHOR(S): Flitsch, Wilhelm; Gerstmann, Egbert  
 CORPORATE SOURCE: Org.-Chem. Inst., Univ. Muenster, Muenster, Fed. Rep. Ger.  
 SOURCE: Chemische Berichte (1972), 105(7), 2344-50  
 CODEN: CHBEAM; ISSN: 0009-2940  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI For diagram(s), see printed CA Issue.  
 AB 1-Phenacyl-2-picolinium and 1-phenacyl-2,6-lutidinium salts reacted with O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>COC<sub>1</sub> to give 1-(nitrobenzoyl)-2-phenylindolizines (I, R = H or Me).  
 The isomeric 3-(nitrobenzoyl)-2-phenylindolizines were obtained by acylation of the 3-unsubstituted compds. 1-Benzoyl-5-methyl-2-phenylindolizine (II), obtained from 1-phenacyl-2,6-lutidinium bromide and BzCl, gave with Ac<sub>2</sub>O 1,1-bis(1-benzoyl-5-methyl-2-phenyl-3-indolizinyloxy)ethylene. Some further reactions of II were reported.  
 IT 38468-54-1P 38468-55-2P 38468-56-3P  
 38468-57-4P 38468-58-5P 38468-59-6P  
 38468-60-9P 38493-33-3P 38493-36-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 38468-54-1 CAPLUS  
 CN Methanone, (2-nitrophenyl) (2-phenyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

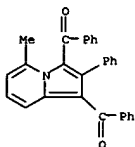


RN 38468-55-2 CAPLUS  
 CN Methanone, (5-methyl-2-phenyl-3-indolizinyloxy) (2-nitrophenyl)- (9CI) (CA INDEX NAME)

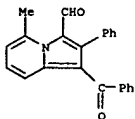


RN 38468-56-3 CAPLUS  
 CN Methanone, (4-nitrophenyl) (2-phenyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

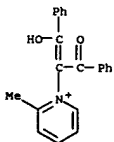
L15 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 38493-33-3 CAPLUS  
 CN 3-Indolizinecarboxaldehyde, 1-benzoyl-5-methyl-2-phenyl- (9CI) (CA INDEX NAME)

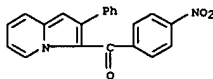


RN 38493-36-6 CAPLUS  
 CN Pyridinium, 1-(1-benzoyl-2-hydroxy-2-phenylethenyl)-2-methyl-, chloride (9CI) (CA INDEX NAME)

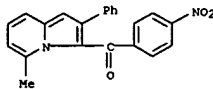


● Cl<sup>-</sup>

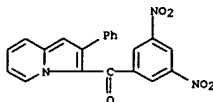
L15 ANSWER 83 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



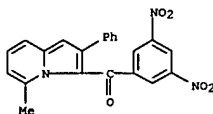
RN 38468-57-4 CAPLUS  
 CN Methanone, (5-methyl-2-phenyl-3-indolizinyloxy) (4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 38468-58-5 CAPLUS  
 CN Methanone, (3,5-dinitrophenyl) (2-phenyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

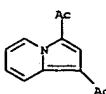


RN 38468-59-6 CAPLUS  
 CN Methanone, (3,5-dinitrophenyl) (5-methyl-2-phenyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)

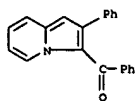


RN 38468-60-9 CAPLUS  
 CN Methanone, (5-methyl-2-phenyl-1,3-indolizinediyl)bis(phenyl)- (9CI) (CA INDEX NAME)

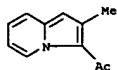
L15 ANSWER 84 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1972:434269 CAPLUS  
 DOCUMENT NUMBER: 77:34269  
 TITLE: Indolizines. I. Direct synthesis of acylindolizines from substituted pyridinium salts  
 AUTHOR(S): Dainis, I.  
 CORPORATE SOURCE: Chem. Sch., Univ. New South Wales, Kensington, Australia  
 SOURCE: Australian Journal of Chemistry (1972), 25(5), 1003-24  
 CODEN: AJCHAS; ISSN: 0004-9425  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI For diagram(s), see printed CA Issue.  
 AB Several routes to 1-(formylmethyl)-2-methylpyridinium bromide (I) were examined. Chichibabin cyclization of I to indolizine failed; an intermol. aldol condensation occurred. Preparation of acyl- and diacylindolizines, e.g.,  
 II (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> = H, Me, Ph) and III (R<sub>1</sub>, R<sub>2</sub> = H, Me, Ph), from 1-(β-oxoalkyl)-2-alkyl- and 1-(β-oxoalkyl)-2-benzylpyridinium salts was described. Using NaOAc-HOAc this reaction gave isomeric products. 1-Acyl-2,3-disubstituted and 3-acyl-1,2-disubstituted indolizines were formed from salts by Chichibabin cyclization and subsequent in situ acylation. 1-Acetyl-2-methylpyridinium bromide gave good yields of 3-acyl- and 1,3-diacylindolizines by this path and also  
 via 1-acetyl-2-acetylmethylene-1,2-dihydropyridine. Thermal cyclization of 2-phenylpyridinium diphenacetylmethylide gave 3-benzoyl-1,2-diphenylindolizine.  
 IT 525-42-8P 14759-45-6P 24004-45-3P  
 36944-58-8P 36944-59-9P 36944-60-2P  
 36944-61-3P 36944-62-4P 36944-63-5P  
 36944-64-6P 36944-66-8P 36944-67-9P  
 36944-68-0P 36944-72-6P 36944-73-7P  
 36944-74-8P 36944-75-9P 36944-76-0P  
 36944-80-6P 36944-82-8P 36944-95-3P  
 37050-11-6P 38320-58-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 525-42-8 CAPLUS  
 CN Ethanone, 1,1'-(1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



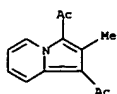
RN 14759-45-6 CAPLUS  
 CN Methanone, phenyl (2-phenyl-3-indolizinyloxy)- (9CI) (CA INDEX NAME)



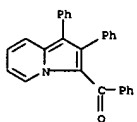
RN 24004-45-3 CAPLUS  
CN Ethanone, 1-(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



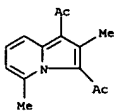
RN 36944-58-8 CAPLUS  
CN Ethanone, 1,1'-(2-methyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



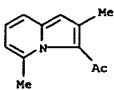
RN 36944-59-9 CAPLUS  
CN Methanone, (1,2-diphenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



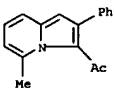
RN 36944-60-2 CAPLUS  
CN Methanone, (1-methyl-2-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



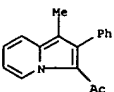
RN 36944-66-8 CAPLUS  
CN Ethanone, 1-(2,5-dimethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



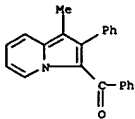
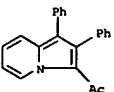
RN 36944-67-9 CAPLUS  
CN Ethanone, 1-(5-methyl-2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



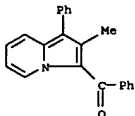
RN 36944-68-0 CAPLUS  
CN Ethanone, 1-(1-methyl-2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



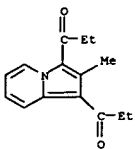
RN 36944-72-6 CAPLUS  
CN Ethanone, 1-(1,2-diphenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



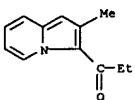
RN 36944-61-3 CAPLUS  
CN Methanone, (2-methyl-1-phenyl-3-indoliziny)phenyl- (9CI) (CA INDEX NAME)



RN 36944-62-4 CAPLUS  
CN 1-Propanone, 1,1'-(2-methyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)

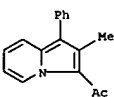


RN 36944-63-5 CAPLUS  
CN 1-Propanone, 1-(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)

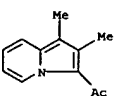


RN 36944-64-6 CAPLUS  
CN Ethanone, 1,1'-(2,5-dimethyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)

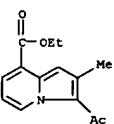
RN 36944-73-7 CAPLUS  
CN Ethanone, 1-(2-methyl-1-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



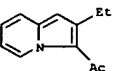
RN 36944-74-8 CAPLUS  
CN Ethanone, 1-(1,2-dimethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



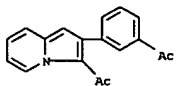
RN 36944-75-9 CAPLUS  
CN 8-Indolizinecarboxylic acid, 3-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



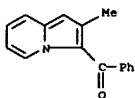
RN 36944-76-0 CAPLUS  
CN Ethanone, 1-(2-ethyl-3-indoliziny)- (9CI) (CA INDEX NAME)



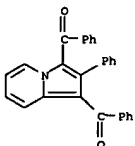
RN 36944-80-6 CAPLUS  
CN Ethanone, 1-[3-(3-acetyl-2-indoliziny)phenyl]- (9CI) (CA INDEX NAME)



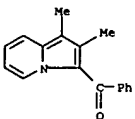
RN 36944-82-8 CAPLUS  
CN Methanone, (2-methyl-3-indolizinyphenyl)- (9CI) (CA INDEX NAME)



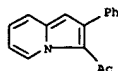
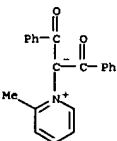
RN 36944-95-3 CAPLUS  
CN Methanone, (2-phenyl-1,3-indolizinediyl)bis(phenyl)- (9CI) (CA INDEX NAME)



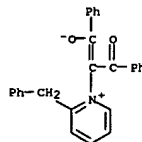
RN 37050-11-6 CAPLUS  
CN Methanone, (1,2-dimethyl-3-indolizinyphenyl)- (9CI) (CA INDEX NAME)



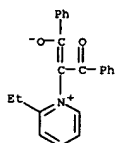
RN 38320-58-0 CAPLUS  
CN Ethanone, 1-(2-phenyl-3-indolizinyphenyl)- (9CI) (CA INDEX NAME)



IT 36944-56-6 36944-84-0 36944-96-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(ring closure of, acylindolizines from)  
RN 36944-56-6 CAPLUS  
CN Pyridinium, 1-(1-benzoyl-2-hydroxy-2-phenylethenyl)-2-(phenylmethyl)-, inner salt (9CI) (CA INDEX NAME)



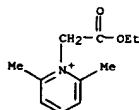
RN 36944-84-0 CAPLUS  
CN Pyridinium, 1-(1-benzoyl-2-hydroxy-2-phenylethenyl)-2-ethyl-, inner salt (9CI) (CA INDEX NAME)



RN 36944-96-4 CAPLUS  
CN Pyridinium, 2-methyl-, 1-benzoyl-2-oxo-2-phenylethylidene (9CI) (CA INDEX NAME)

7

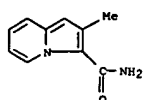
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1972:419499 CAPLUS  
DOCUMENT NUMBER: 77:19499  
TITLE: Indolizines. II. Facile synthesis of 3-alkoxycarbonyl-, 3-cyano-, and 3-carbamoylindolizines and its mechanism  
AUTHOR(S): Dainis, I.  
CORPORATE SOURCE: Chem. Sch., Univ. New South Wales, Kensington, Australia  
SOURCE: Australian Journal of Chemistry (1972), 25(5), 1025-50  
CODEN: AJCHAS; ISSN: 0004-9425  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI For diagram(s), see printed CA Issue.  
AB Acylative cyclization of 2-methylpyridinium (I, R = CN, CO<sub>2</sub>R<sub>1</sub>, Me, CH(:NOH)) gave 2,3-disubstituted and 1-acyl-2,3-disubstituted indolizines, e.g., II (R<sub>1</sub> = Ph, CO<sub>2</sub>Et, CN, CONH<sub>2</sub>, CO<sub>2</sub>H, CO<sub>2</sub>CH<sub>2</sub>Ph, CH:NOH, R<sub>2</sub> = Me, Et, Ph). This method provided indolizines bearing electroneg. 3-substituents. With 2-substituted pyridinium salts this method provided 1-acetoxy-2,3-disubstituted and other 1,2,3-trisubstituted indolizines. Hydroxypyridines gave acetoxyindolizines. Product studies showed that acyl- and diacylmethines were the major intermediates. Treatment of indolizines with ClCO<sub>2</sub>Et gave Et indolizine-3-carboxylates. These products and also 3-cyanoindolizines were characterized by reaction with acid formaldehyde to give methylene-1,1'-diindolizines.  
IT 31778-09-3P 32401-32-4P 36766-56-0P  
36766-57-1P 36766-58-2P 36766-59-3P  
36766-76-4P 36766-77-5P 36766-78-6P  
36766-79-7P 36766-80-0P 36766-81-1P  
36766-82-2P 36766-83-3P 36766-84-4P  
36766-85-5P 36766-86-6P 36766-87-7P  
36766-89-9P 36766-93-5P 36766-94-6P  
36767-01-8P 36767-03-0P 36767-04-1P  
36767-05-2P 36767-06-3P 36767-07-4P  
36767-08-5P 36767-09-6P 36767-10-9P  
36767-11-0P 36767-13-2P 36767-14-3P  
36767-15-4P 36767-16-5P 36767-17-6P  
36779-53-0P 36779-54-1P 36827-04-0P  
36827-05-1P 37511-56-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 31778-09-3 CAPLUS  
CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

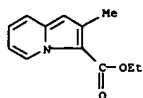


L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

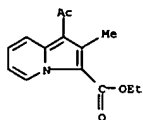
RN 32401-32-4 CAPLUS  
CN 3-Indolizinecarboxamide, 2-methyl- (8CI, 9CI) (CA INDEX NAME)



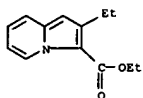
RN 36766-56-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 36766-57-1 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

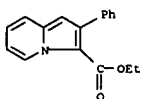


RN 36766-58-2 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-ethyl-, ethyl ester (9CI) (CA INDEX NAME)

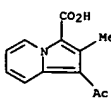


RN 36766-59-3 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-ethyl-1-(1-oxopropyl)-, ethyl ester (9CI) (CA INDEX NAME)

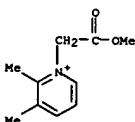
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 36766-80-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-2-methyl- (9CI) (CA INDEX NAME)

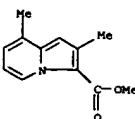


RN 36766-81-1 CAPLUS  
CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2,3-dimethyl-, bromide (9CI) (CA INDEX NAME)



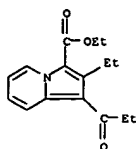
● Br<sup>-</sup>

RN 36766-82-2 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2,8-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

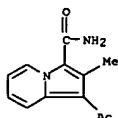


RN 36766-83-3 CAPLUS

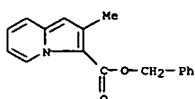
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



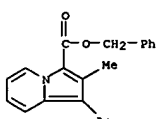
RN 36766-76-4 CAPLUS  
CN 3-Indolizinecarboxamide, 1-acetyl-2-methyl- (9CI) (CA INDEX NAME)



RN 36766-77-5 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

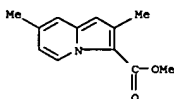


RN 36766-78-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-2-methyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

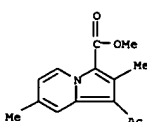


RN 36766-79-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

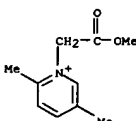
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
CN 3-Indolizinecarboxylic acid, 2,7-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



RN 36766-84-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-2,7-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

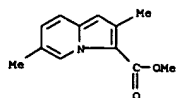


RN 36766-85-5 CAPLUS  
CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2,5-dimethyl-, bromide (9CI) (CA INDEX NAME)

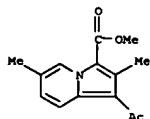


● Br<sup>-</sup>

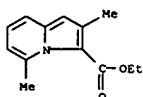
RN 36766-86-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2,6-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



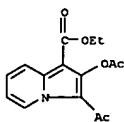
RN 36766-87-7 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-2,6-dimethyl-, methyl ester (9CI)  
(CA INDEX NAME)



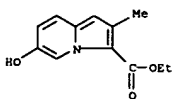
RN 36766-89-9 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



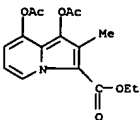
RN 36766-93-5 CAPLUS  
CN 1-Indolizinecarboxylic acid, 3-acetyl-2-(acetyloxy)-, ethyl ester (9CI)  
(CA INDEX NAME)



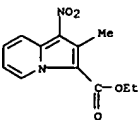
RN 36766-94-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1,2-dimethyl-, methyl ester (9CI) (CA INDEX NAME)



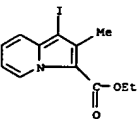
RN 36767-06-3 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1,8-bis(acetyloxy)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



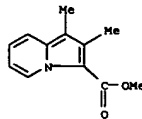
RN 36767-07-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 2-methyl-1-nitro-, ethyl ester (9CI) (CA INDEX NAME)



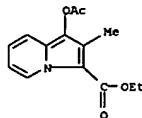
RN 36767-08-5 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-iodo-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



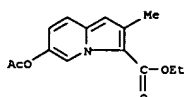
RN 36767-09-6 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(cyanomethyl)-2-methyl-, ethyl ester (9CI)  
(CA INDEX NAME)



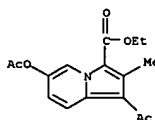
RN 36767-01-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-(acetyloxy)-2-methyl-, ethyl ester (9CI)  
(CA INDEX NAME)



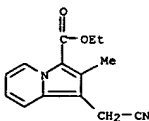
RN 36767-03-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6-(acetyloxy)-2-methyl-, ethyl ester (9CI)  
(CA INDEX NAME)



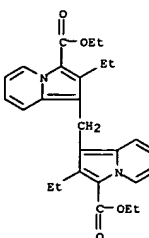
RN 36767-04-1 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-6-(acetyloxy)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



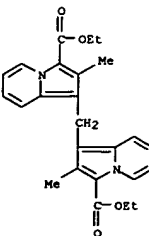
RN 36767-05-2 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6-hydroxy-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



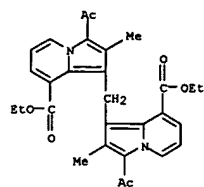
RN 36767-10-9 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis(2-ethyl-, diethyl ester (9CI) (CA INDEX NAME)



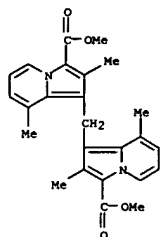
RN 36767-11-0 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis(2-methyl-, diethyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 36767-13-2 CAPLUS  
 CN 8-Indolizinecarboxylic acid, 1,1'-methylenebis[3-acetyl-2-methyl-, diethyl ester (9CI) (CA INDEX NAME)

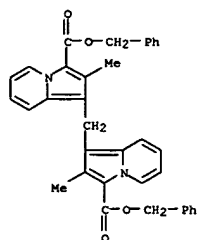


RN 36767-14-3 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis[2,6-dimethyl-, dimethyl ester (9CI) (CA INDEX NAME)

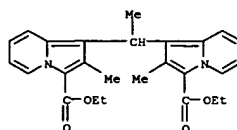


RN 36767-15-4 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1,1'-methylenebis[2-methyl-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)

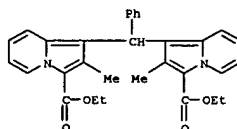
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 36767-16-5 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1,1'-ethylidenebis[2-methyl-, diethyl ester (9CI) (CA INDEX NAME)

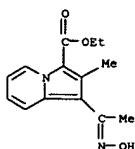


RN 36767-17-6 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1,1'-(phenylmethylene)bis[2-methyl-, diethyl ester (9CI) (CA INDEX NAME)

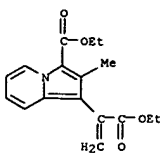


RN 36779-53-0 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-[1-(hydroxyimino)ethyl]-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

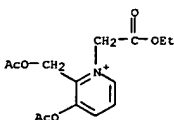
L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 36779-54-1 CAPLUS  
 CN 1-Indolizineacetic acid, 3-(ethoxycarbonyl)-2-methyl-α-methylene-, ethyl ester (9CI) (CA INDEX NAME)



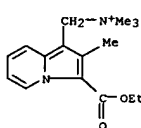
RN 36827-04-0 CAPLUS  
 CN Pyridinium, 3-(acetyloxy)-2-[(acetyloxy)methyl]-1-(2-ethoxy-2-oxoethyl)-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

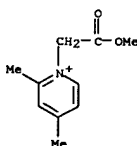
RN 36827-05-1 CAPLUS  
 CN 1-Indolizinecarboxylic acid, 1,1'-methylenebis[2-methyl-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)

L15 ANSWER 85 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



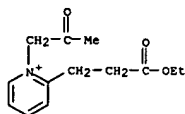
● I<sup>-</sup>

RN 37511-56-1 CAPLUS  
 CN Pyridinium, 1-(2-methoxy-2-oxoethyl)-2,4-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

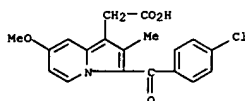
L15 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN  
 ACCESSION NUMBER: 1972:85660 CAPLUS  
 DOCUMENT NUMBER: 76:85660  
 TITLE: Indolizine analogs of indomethacin  
 AUTHOR(S): Casagrande, C.; Invernizzi, A.; Ferrini, R.; Miragoli, G.  
 CORPORATE SOURCE: Lab. Ric., Simes S.p.A., Milan, Italy  
 SOURCE: Farmaco, Edizione Scientifica (1971), 26(12), 1059-73  
 CODEN: FRPSAX; ISSN: 0430-0920  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 76:85660  
 GI For diagram(s), see printed CA issue.  
 AB Condensation of picolinaldehyde or 4-methoxypicolin-aldehyde with HO2CCH2CO2Et, followed by hydrogenation, followed by treatment with BrCH2CO2Me, gave I or II, resp. I and II were cyclized (NaHCO3) to give III and IV, resp. Treatment of III or IV with p-ClC6H4COCl, followed by saponification, gave V or VI, resp. III was treated with p-ClC6H4CH2I, and the product saponified, to give VII.  
 4-Chloro-2-(chloromethyl)-5-methoxypyridine was hydrogenated and the product treated with BrCH2CO2Me to give VIII. VIII was cyclized to give IX. Treatment of IX or X with ICH2CO2Et and AlCl3, followed by treatment with p-ClC6H4COCl, followed by saponification, gave XI or XII, resp. In the carrageenin edema test in rats, VI and XI at 50 mg/kg were about as effective as 10 mg/kg indomethacin. In the phenylquinone writhing syndrome in mice, VI, XI, and XII were more active than phenylbutazone, but less active than indomethacin. VI and XII were more effective in the cotton pellet granuloma test in rats at 40 mg/kg than 40 mg/kg phenylbutazone or 4 mg/kg indomethacin. Acute LD50 (i.v.) of VI, XI, and XII were 175, 150, and 205 mg/kg, resp.  
 IT 35475-55-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and ring closure of)  
 RN 35475-55-9 CAPLUS  
 CN Pyridinium, 2-(3-ethoxy-3-oxopropyl)-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)



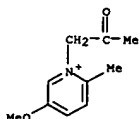
• Br<sup>-</sup>

IT 26466-66-0P 26466-68-2P 35475-57-1P  
 35475-65-1P 35475-66-2P 35475-72-0P  
 35475-73-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)

L15 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)  
 RN 35475-66-2 CAPLUS  
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-7-methoxy-2-methyl- (9CI) (CA INDEX NAME)

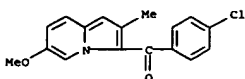


RN 35475-72-0 CAPLUS  
 CN Pyridinium, 5-methoxy-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

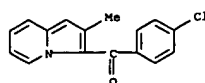


• Br<sup>-</sup>

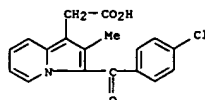
RN 35475-73-1 CAPLUS  
 CN Methanone, (4-chlorophenyl) (6-methoxy-2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



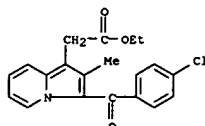
L15 ANSWER 86 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)  
 (prepn. of)  
 RN 26466-66-0 CAPLUS  
 CN Methanone, (4-chlorophenyl) (2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



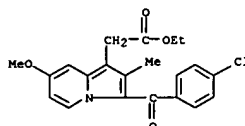
RN 26466-68-2 CAPLUS  
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-2-methyl- (9CI) (CA INDEX NAME)



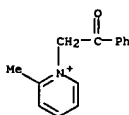
RN 35475-57-1 CAPLUS  
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 35475-65-1 CAPLUS  
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-7-methoxy-2-methyl-, ethyl ester (9CI) (CA INDEX NAME)

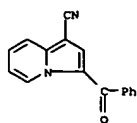


L15 ANSWER 87 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN  
 ACCESSION NUMBER: 1971:435631 CAPLUS  
 DOCUMENT NUMBER: 75:35631  
 TITLE: Indolizines from phenacylcyclimonium salts  
 AUTHOR(S): Froehlich, Juerg; Kroehnke, Fritz  
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Giessen, Giessen, Fed. Rep. Ger.  
 SOURCE: Chemische Berichte (1971), 104(5), 1621-8  
 CODEN: CHBEAM; ISSN: 0009-2940  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI For diagram(s), see printed CA issue.  
 AB Dipolar 1,3-addition of H2C:CHCN to N-ylides, generated in situ by bases from N-phenacylcyclimonium salts (I), e.g. N-phenacylpyridinium bromide gave tetrahydroindolizines (II), e.g. 3-benzoyl-1-cyano-1,2,3,8a-tetrahydroindolizine. II were dehydrogenated to dihydroindolizines (III), e.g. 3-benzoyl-1-cyano-2,3-dihydroindolizine and indolizines (IV), e.g. 3-benzoyl-1-cyanoindolizine.  
 IT 32896-98-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclo addition of, with acrylonitrile)  
 RN 32896-98-3 CAPLUS  
 CN Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

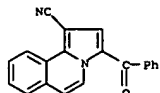


• Br<sup>-</sup>

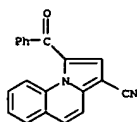
IT 25627-81-0P 25627-83-2P 25627-85-4P  
 32896-92-7P 32896-94-9P 32896-95-0P  
 32896-96-1P 32896-97-2P 32896-99-4P  
 32897-00-0P 32897-01-1P 32897-02-2P  
 32897-03-3P 32897-05-5P 32897-08-8P  
 32921-07-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 25627-81-0 CAPLUS  
 CN 1-Indolizinecarbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



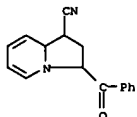
RN 25627-83-2 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl- (8CI, 9CI) (CA INDEX NAME)



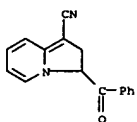
RN 25627-85-4 CAPLUS  
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl- (8CI, 9CI) (CA INDEX NAME)



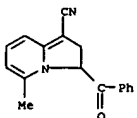
RN 32896-92-7 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI, 9CI) (CA INDEX NAME)



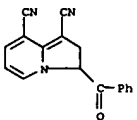
RN 32896-94-9 CAPLUS  
CN 3,8-Indolizinedicarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI) (CA INDEX NAME)



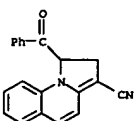
RN 32897-00-0 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-benzoyl-2,3-dihydro-5-methyl- (8CI) (CA INDEX NAME)



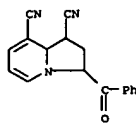
RN 32897-01-1 CAPLUS  
CN 3,6-Indolizinedicarbonitrile, 3-benzoyl-2,3-dihydro- (8CI) (CA INDEX NAME)



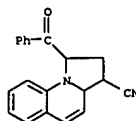
RN 32897-02-2 CAPLUS  
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl-1,2-dihydro- (8CI) (CA INDEX NAME)



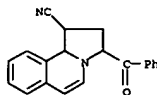
RN 32897-03-3 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl-2,3-dihydro- (8CI)



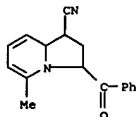
RN 32896-95-0 CAPLUS  
CN Pyrrolo[1,2-a]quinoline-3-carbonitrile, 1-benzoyl-1,2,3,3a-tetrahydro- (8CI) (CA INDEX NAME)



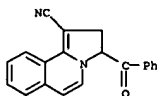
RN 32896-96-1 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1-carbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro- (8CI) (CA INDEX NAME)



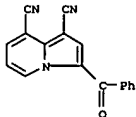
RN 32896-97-2 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro-5-methyl- (8CI) (CA INDEX NAME)



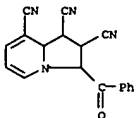
RN 32896-99-4 CAPLUS  
CN 1-Indolizinecarbonitrile, 3-benzoyl-2,3-dihydro- (8CI) (CA INDEX NAME)



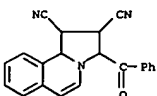
RN 32897-05-5 CAPLUS  
CN 3,8-Indolizinedicarbonitrile, 3-benzoyl- (8CI) (CA INDEX NAME)



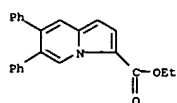
RN 32897-08-8 CAPLUS  
CN 1,2,8-Indolizinetricarbonitrile, 3-benzoyl-1,2,3,8a-tetrahydro- (8CI) (CA INDEX NAME)



RN 32921-07-6 CAPLUS  
CN Pyrrolo[2,1-a]isoquinoline-1,2-dicarbonitrile, 3-benzoyl-1,2,3,10b-tetrahydro- (8CI) (CA INDEX NAME)

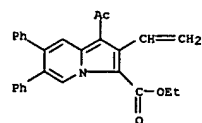


L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1971:141483 CAPLUS  
 DOCUMENT NUMBER: 74:141483  
 TITLE: New ring cleavage in quinolizinium compounds and their subsequent reactions  
 AUTHOR(S): Moerler, Dieter; Kroehnke, Fritz  
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Giessen, Giessen, Fed. Rep. Ger.  
 SOURCE: Justus Liebigs Annalen der Chemie (1971), 744, 65-80  
 CODEN: JIACBF; ISSN: 0075-4617  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI For diagram(s), see printed CA Issue.  
 AB Reaction of 2,3-(R2-disubstituted)quinolizinium bromides (I) with piperidine or morpholine gave with ring opening the corresponding vinylogous trans,trans-conjugated tetramethines,  
 4,5-(R2-disubstituted)-2-[4-piperidino(or morpholino)-1,3-butadienyl]pyridines (II) (where R = H, Me, or Ph). The amine group in II is exchangeable in the presence of protons and the heterocyclic N can be acylated and alkylated. The hemicyanines, trans,trans-1-(acylmethyl)-2-(4-piperidino-1,3-butadienyl)pyridinium bromides (III), reacted by intramol. ring closure on contact with Al2O3 to yield the corresponding 2-vinyl-3-acylindolizines (IV).  
 IT 24268-79-9P 24307-06-0P 31778-08-2P  
 31778-09-3P 31806-76-5P 31806-77-6P  
 31806-78-7P 31806-79-8P 31806-80-1P  
 31806-82-3P 31806-86-7P 31806-87-8P  
 31806-88-9P 31806-89-0P 31806-90-3P  
 31806-91-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation of preparation of)  
 RN 24268-79-9 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 6,7-diphenyl-, ethyl ester (8CI) (CA INDEX NAME)

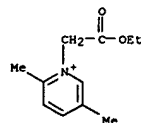


RN 24307-06-0 CAPLUS  
 CN 3-Indolizinecarboxylic acid, 1-acetyl-6,7-diphenyl-2-vinyl-, ethyl ester (8CI) (CA INDEX NAME)

L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

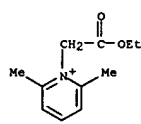


RN 31778-08-2 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,5-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

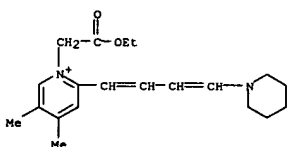
RN 31778-09-3 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-2,6-dimethyl-, bromide (9CI) (CA INDEX NAME)



● Br<sup>-</sup>

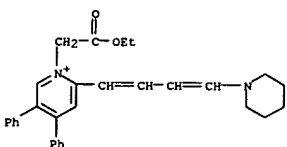
RN 31806-76-5 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-4,5-dimethyl-2-(4-piperidino-1,3-butadienyl)-, bromide, ethyl ester (8CI) (CA INDEX NAME)

L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



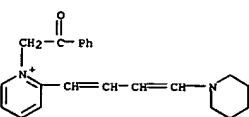
● Br<sup>-</sup>

RN 31806-77-6 CAPLUS  
 CN Pyridinium, 1-(2-ethoxy-2-oxoethyl)-4,5-diphenyl-2-(4-piperidino-1,3-butadienyl)-, bromide, ethyl ester (8CI) (CA INDEX NAME)



● Br<sup>-</sup>

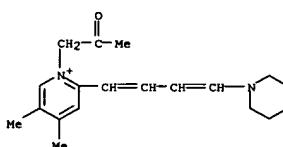
RN 31806-78-7 CAPLUS  
 CN Pyridinium, 1-phenacyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)



● Br<sup>-</sup>

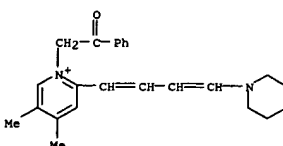
L15 ANSWER 88 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 31806-79-8 CAPLUS  
 CN Pyridinium, 1-acetonyl-4,5-dimethyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)



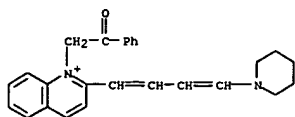
● Br<sup>-</sup>

RN 31806-80-1 CAPLUS  
 CN Pyridinium, 4,5-dimethyl-1-phenacyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)

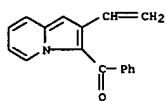


● Br<sup>-</sup>

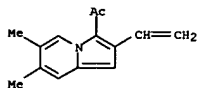
RN 31806-82-3 CAPLUS  
 CN Quinolizinium, 1-phenacyl-2-(4-piperidino-1,3-butadienyl)-, bromide (8CI) (CA INDEX NAME)

● Br<sup>-</sup>

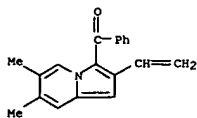
RN 31806-86-7 CAPLUS  
CN Ketone, phenyl 2-vinyl-3-indoliziny (8CI) (CA INDEX NAME)



RN 31806-87-8 CAPLUS  
CN Ketone, 6,7-dimethyl-2-vinyl-3-indoliziny methyl (8CI) (CA INDEX NAME)

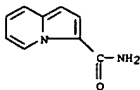


RN 31806-88-9 CAPLUS  
CN Ketone, 6,7-dimethyl-2-vinyl-3-indoliziny phenyl (8CI) (CA INDEX NAME)

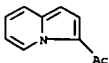


RN 31806-89-0 CAPLUS  
CN Ketone, 6,7-diphenyl-2-vinyl-3-indoliziny methyl (8CI) (CA INDEX NAME)

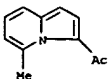
L15 ANSWER 89 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1971:41557 CAPLUS  
DOCUMENT NUMBER: 74:41557  
TITLE: Mass spectra of indolizines  
AUTHOR(S): Jones, Guinos; Stahyer, J.  
CORPORATE SOURCE: Dep. Chem., Univ. Keele, Keele/Staffordshire, UK  
SOURCE: Organic Mass Spectrometry (1970), 3(12), 1489-98  
CODEN: ORMSBG; ISSN: 0030-493X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The mass spectra of indolizine, the 7 monomethylindolizines, the 6 2,x-dimethylindolizines and a number of related simple indolizines are reported. The breakdown patterns are compared with those of the corresponding indoles.  
IT 22320-27-0 25314-91-4 31108-61-9  
RL: PRP (Properties)  
(mass spectrum of)  
RN 22320-27-0 CAPLUS  
CN 3-indolizinecarboxamide (8CI) (CA INDEX NAME)



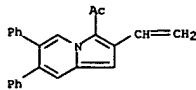
RN 25314-91-4 CAPLUS  
CN Ethanone, 1-(3-indoliziny)- (9CI) (CA INDEX NAME)



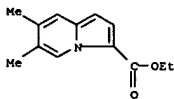
RN 31108-61-9 CAPLUS  
CN Ethanone, 1-(5-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)



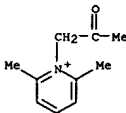
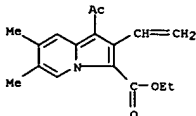
IT 31080-82-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 31080-82-7 CAPLUS  
CN Pyridinium, 1-acetyl-2,6-dimethyl-, bromide (8CI) (CA INDEX NAME)



RN 31806-90-3 CAPLUS  
CN 3-Indolizinecarboxylic acid, 6,7-dimethyl-, ethyl ester (8CI) (CA INDEX NAME)



RN 31806-91-4 CAPLUS  
CN 3-Indolizinecarboxylic acid, 1-acetyl-6,7-dimethyl-2-vinyl-, ethyl ester (8CI) (CA INDEX NAME)

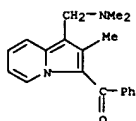
● Br<sup>-</sup>

L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1970:55285 CAPLUS  
 DOCUMENT NUMBER: 72:55285  
 TITLE: Analgesic indolizine-1-acetic acids  
 INVENTOR(S): Naylor, John H. C.  
 PATENT ASSIGNEE(S): Beecham Group Ltd.  
 SOURCE: Brit., 10 pp.  
 CODEN: BRKXAA  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1174124		19691210	GB 1967-30271	19670630

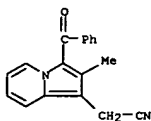
GI For diagram(s), see printed CA Issue.  
 AB The title compds. (I; R = CO<sub>2</sub>H) which exhibit analgesic and antiinflammatory activity were prepared  
 3-p-Chlorobenzoyl-2-methylindolizine (80%), m. 109-10° (light petroleum) was prepared by reacting 2-methylindolizine with p-ClC<sub>6</sub>H<sub>4</sub>COCl. 5-Ethoxy-2-methylpyridine (38 g) in 150 ml dry Me<sub>2</sub>CO refluxed 15 min with 42 g BrCH<sub>2</sub>Ac gave 6-ethoxy-2-methylindolizine, b<sub>0.4</sub> 113-14°. 2,4-Lutidine (21.4 g) added to 40 g BrCH<sub>2</sub>Br in 60 ml dry Me<sub>2</sub>CO, the mixture refluxed 30 min and kept overnight at room temperature gave 2,4-dimethyl-1-phenacylpyridinium bromide, m. 228-9°. This (10 g) in 100 ml H<sub>2</sub>O treated with 30 g NaHCO<sub>3</sub> and the mixture refluxed 2 hr gave 97% 7-methyl-2-phenylindolizine, m. 207° (decomposition). A mixture of 31.5 g 2,7-dimethylindolizine and 28 g anhydrous AcONa in 200 ml Ac<sub>2</sub>O refluxed 7 hr gave 70% 3-acetyl-2,7-dimethylindolizine, b<sub>0.15</sub> 136-8°, m. 87-8° (light petroleum). Similarly prepared were 83% 3-acetyl-7-methyl-2-phenylindolizine, b<sub>0.35</sub> 180-2°; 89% 3-acetyl-2-(p-methoxyphenyl)-indolizine, m. 103-5° (EtOH); and 80% 3-acetyl-6-ethoxy-2-methylindolizine, b<sub>0.13</sub> 138-40°, m. 75° (light petroleum). A mixture of 7.25 ml AcOH and 5 ml H<sub>2</sub>O cooled to 0°, 3.3 ml anhydrous Me<sub>2</sub>NH added dropwise followed by 4 ml 40% aqueous HCHO and 12.45 g 3-benzoyl-2-methylindolizine, and the mixture agitated 6.5 hr gave 89% I (R = NMe<sub>2</sub>, R<sub>1</sub> = Me, R<sub>2</sub> = Ph, R<sub>3</sub> = H) (II), m. 88° (light petroleum). The following I (R = NMe<sub>2</sub>) were similarly prepared (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, & yield, m.p. and (or) b.p. given): Me, p-ClC<sub>6</sub>H<sub>4</sub>, H, 67, 108°, (light petroleum); Me, Me, H, 83, 56° (light petroleum); b<sub>1.4</sub> 168-9°; Ph, Me, H, 25, 105° (aqueous Me<sub>2</sub>CO), b<sub>1.0</sub> 190-2°; Bu, Me, H, 59, b<sub>7.0</sub> 170-4°; Me, Me, 7-Me, 28, b<sub>0.35</sub> 167-73°; Ph, Me, 7-Me, 78, 107-8° (light petroleum); p-MeOC<sub>6</sub>H<sub>4</sub>, Me, H, 12, b<sub>1.0</sub> 240-50°; and Me, Me, 6-OEt, 54, 79-80° (light petroleum), b<sub>0.3</sub> 173-5°. MeI (6 ml) added to 9.75 g II in 100 ml EtOH, followed by 5.5 g KCN in 60 ml H<sub>2</sub>O, and the mixture refluxed 2 hr gave 74% I (R = CN, R<sub>1</sub> = Me, R<sub>2</sub> = Ph, R<sub>3</sub> = H) (III), m. 132-3° (EtOH). The following I (R = CN) were prepared similarly (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, & yield, and m.p. given): Me, p-ClC<sub>6</sub>H<sub>4</sub>, H, 78, 163-4° (EtOH) Me, Me, H, 45-50, 138-9° (MeOH); Ph, Me, H, 97.5, 139° (MeOH); H, Me, H, 78, 130-1° (aqueous EtOH); Bu, Me, H, -, 81-2° (light petroleum); Me, Me, 7-Me, 75, 123-4° (aqueous MeOH); Ph, Me, 7-Me, 95, 186-7° (aqueous MeOH); p-MeOC<sub>6</sub>H<sub>4</sub>, Me, H, 40,

L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 -; and Me, Me, 6-OEt, 85, 78° (aq. MeOH). A soln. of 4 g III in 100 ml EtOH added to 8 g KOH in 20 ml H<sub>2</sub>O and the mixt. refluxed 24 hr gave 2.5 g I (R = CO<sub>2</sub>H, R<sub>1</sub> = Me, R<sub>2</sub> = Ph, R<sub>3</sub> = H), m. 195-7° (MeOH). The following I (R = CO<sub>2</sub>H) were similarly prepd. (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, & yield, and m.p. given): Me, Me, H (IV), 92, 197-8° (decompn.) (MeOH); Ph, Me, H, 72, 225° (MeOH); H, Me, H, 53, 195-7° (MeOH); Bu, Me, H, 74, 190-1° (decompn.) (aq. MeOH); Me, Me, 7-Me, 40, 204° (decompn.) (MeOH); Ph, Me, 7-Me, 87, 204° (decompn.) (aq. MeOH); p-MeOC<sub>6</sub>H<sub>4</sub>, Me, H, 67.5, 189-90° (MeOH); and Me, Me, 6-OEt, 60, 187-8° (monohydrate), (MeOH). Treating the corresponding acids in MeOH with CH<sub>2</sub>N<sub>2</sub> in Et<sub>2</sub>O at room temp. 3 hr gave the following I (R = CO<sub>2</sub>Me) (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, & yield, and m.p. given): Me, Me, H, 96, 112-13° (light petroleum); H, Me, H, 83, 76-8° (aq. Me<sub>2</sub>CO); and Ph, Me, 7-Me, 63, 107-8° (light petroleum). IV Na salt and 1 equiv. Et<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>Cl in iso-PrOH refluxed 5 hr gave 54% I (R = CO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NEt<sub>2</sub>, R<sub>1</sub> = R<sub>2</sub> = Me, R<sub>3</sub> = H), b<sub>0.1</sub> 185-90°. Prepn. and phys. data for many of the intermediates were given.  
 IT 26466-63-7P 26466-64-8P 26466-65-9P  
 26466-66-0P 26466-67-1P 26466-68-2P  
 26466-69-3P 26466-70-6P 26466-71-7P  
 26466-72-8P 26466-73-9P 26466-74-0P 26557  
 -44-8P 26557-45-9P 26557-46-0P  
 26557-47-1P 26557-48-2P 26557-49-3P  
 26557-50-6P 26557-51-7P 26557-52-8P  
 26557-53-9P 26557-54-0P 26557-55-1P  
 26557-57-3P 26557-58-4P 26557-59-5P  
 26557-60-8P 26557-61-9P 26557-62-0P  
 26557-63-1P 26557-66-4P 26557-67-5P  
 26557-68-6P 26557-69-7P 26573-47-7P  
 26573-48-8P 26573-49-9P 26573-50-2P  
 26573-51-3P 26573-52-4P 26573-53-5P  
 26573-54-6P 26573-55-7P 26615-18-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (Preparation of)  
 RN 26466-63-7 CAPLUS  
 CN Ketone, 1-[(dimethylamino)methyl]-2-methyl-3-indoliziny phenyl (8CI)  
 (CA INDEX NAME)

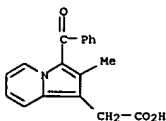


RN 26466-64-8 CAPLUS  
 CN 1-Indolizineacetonitrile, 3-benzoyl-2-methyl- (8CI) (CA INDEX NAME)

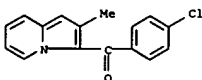
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



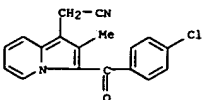
RN 26466-65-9 CAPLUS  
 CN 1-Indolizineacetic acid, 3-benzoyl-2-methyl- (8CI) (CA INDEX NAME)



RN 26466-66-0 CAPLUS  
 CN Methanone, (4-chlorophenyl)(2-methyl-3-indoliziny)- (9CI) (CA INDEX NAME)

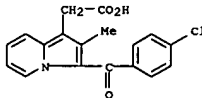


RN 26466-67-1 CAPLUS  
 CN 1-Indolizineacetonitrile, 3-(p-chlorobenzoyl)-2-methyl- (8CI) (CA INDEX NAME)

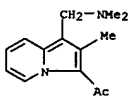


RN 26466-68-2 CAPLUS  
 CN 1-Indolizineacetic acid, 3-(4-chlorobenzoyl)-2-methyl- (9CI) (CA INDEX NAME)

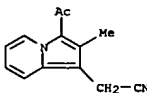
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



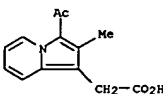
RN 26466-69-3 CAPLUS  
 CN Ketone, 1-[(dimethylamino)methyl]-2-methyl-3-indoliziny methyl (8CI)  
 (CA INDEX NAME)



RN 26466-70-6 CAPLUS  
 CN 1-Indolizineacetonitrile, 3-acetyl-2-methyl- (8CI) (CA INDEX NAME)

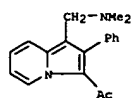


RN 26466-71-7 CAPLUS  
 CN 1-Indolizineacetic acid, 3-acetyl-2-methyl- (8CI, 9CI) (CA INDEX NAME)

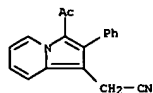


RN 26466-72-8 CAPLUS  
 CN Ketone, 1-[(dimethylamino)methyl]-2-phenyl-3-indoliziny methyl (8CI)  
 (CA INDEX NAME)

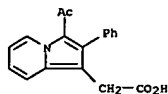




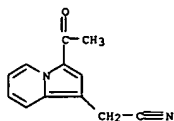
RN 26466-73-9 CAPLUS  
CN 1-Indolizineacetonitrile, 3-acetyl-2-phenyl- (8CI) (CA INDEX NAME)



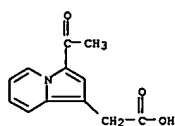
RN 26466-74-0 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-2-phenyl- (8CI) (CA INDEX NAME)



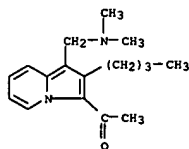
RN 26557-44-8 CAPLUS  
CN 1-Indolizineacetonitrile, 3-acetyl- (8CI) (CA INDEX NAME)



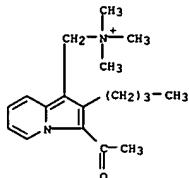
RN 26557-45-9 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl- (8CI) (CA INDEX NAME)



RN 26557-46-0 CAPLUS  
CN Ketone, 2-butyl-1-[(dimethylamino)methyl]-3-indoliziny methyl (8CI) (CA INDEX NAME)

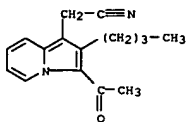


RN 26557-47-1 CAPLUS  
CN Ammonium, [(3-acetyl-2-butyl-1-indoliziny)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)

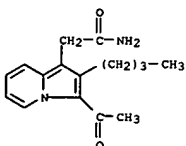


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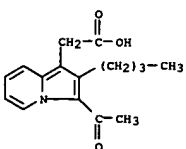
RN 26557-48-2 CAPLUS  
CN 1-Indolizineacetonitrile, 3-acetyl-2-butyl- (8CI) (CA INDEX NAME)



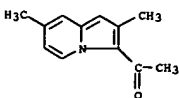
RN 26557-49-3 CAPLUS  
CN 1-Indolizineacetamide, 3-acetyl-2-butyl- (8CI) (CA INDEX NAME)



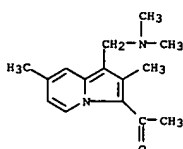
RN 26557-50-6 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-2-butyl- (8CI) (CA INDEX NAME)



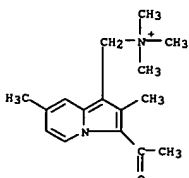
RN 26557-51-7 CAPLUS  
CN Ketone, 2,7-dimethyl-3-indoliziny methyl (8CI) (CA INDEX NAME)



RN 26557-52-8 CAPLUS  
CN Ketone, 1-[(dimethylamino)methyl]-2,7-dimethyl-3-indoliziny methyl (8CI) (CA INDEX NAME)

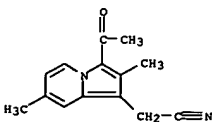


RN 26557-53-9 CAPLUS  
CN Ammonium, [(3-acetyl-2,7-dimethyl-1-indoliziny)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)



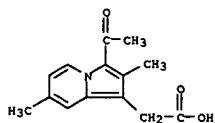
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RN 26557-54-0 CAPLUS  
CN 1-Indolizineacetonitrile, 3-acetyl-2,7-dimethyl- (8CI) (CA INDEX NAME)

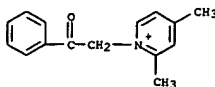


RN 26557-55-1 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-2,7-dimethyl- (8CI) (CA INDEX NAME)

L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

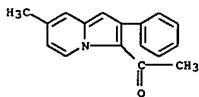


RN 26557-57-3 CAPLUS  
CN Pyridinium, 2,4-dimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)

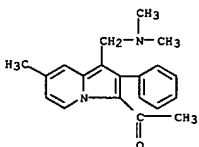


● Br<sup>-</sup>

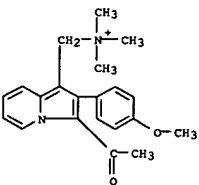
RN 26557-58-4 CAPLUS  
CN Ketone, methyl 7-methyl-2-phenyl-3-indolizinylium (8CI) (CA INDEX NAME)



RN 26557-59-5 CAPLUS  
CN Ketone, 1-[(dimethylamino)methyl]-7-methyl-2-phenyl-3-indolizinylium methyl (8CI) (CA INDEX NAME)

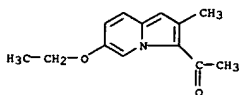


L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

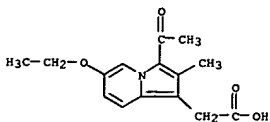


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RN 26557-66-4 CAPLUS  
CN Ketone, 6-ethoxy-2-methyl-3-indolizinylium methyl (8CI) (CA INDEX NAME)



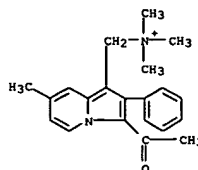
RN 26557-67-5 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-6-ethoxy-2-methyl- (8CI) (CA INDEX NAME)



RN 26557-68-6 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-2-methyl-, methyl ester (8CI) (CA INDEX NAME)

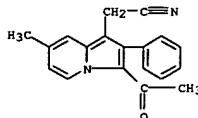
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 26557-60-8 CAPLUS  
CN Ammonium, [(3-acetyl-7-methyl-2-phenyl-1-indolizinylium)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)

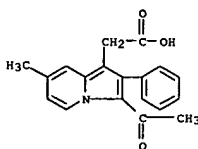


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RN 26557-61-9 CAPLUS  
CN 1-Indolizineacetonitrile, 3-acetyl-7-methyl-2-phenyl- (8CI) (CA INDEX NAME)

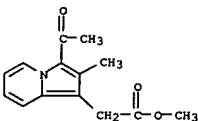


RN 26557-62-0 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-7-methyl-2-phenyl- (8CI) (CA INDEX NAME)

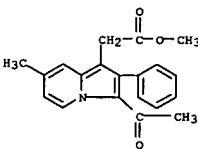


RN 26557-63-1 CAPLUS  
CN Ammonium, [(3-acetyl-2-(p-methoxyphenyl)-1-indolizinylium)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)

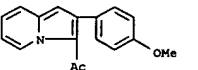
L15 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



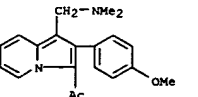
RN 26557-69-7 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-7-methyl-2-phenyl-, methyl ester (8CI) (CA INDEX NAME)



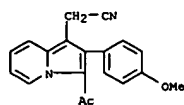
RN 26573-47-7 CAPLUS  
CN Ethanone, 1-[2-(4-methoxyphenyl)-3-indolizinylium]- (9CI) (CA INDEX NAME)



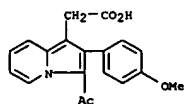
RN 26573-48-8 CAPLUS  
CN Ketone, 1-[(dimethylamino)methyl]-2-(p-methoxyphenyl)-3-indolizinylium methyl (8CI) (CA INDEX NAME)



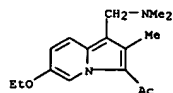
RN 26573-49-9 CAPLUS  
CN 1-Indolizineacetonitrile, 3-acetyl-2-(p-methoxyphenyl)- (8CI) (CA INDEX NAME)



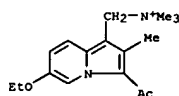
RN 26573-50-2 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-2-(p-methoxyphenyl)- (8CI) (CA INDEX NAME)



RN 26573-51-3 CAPLUS  
CN Ketone, 1-[(dimethylamino)methyl]-6-ethoxy-2-methyl-3-indoliziny methyl (8CI) (CA INDEX NAME)



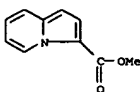
RN 26573-52-4 CAPLUS  
CN Ammonium, 1-[(3-acetyl-6-ethoxy-2-methyl-1-indoliziny)methyl]trimethyl-, iodide (8CI) (CA INDEX NAME)



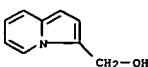
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RN 26573-53-5 CAPLUS  
CN 1-Indolizineacetonitrile, 3-acetyl-6-ethoxy-2-methyl- (8CI) (CA INDEX NAME)

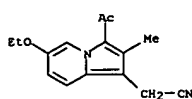
L15 ANSWER 91 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1969:114982 CAPLUS  
DOCUMENT NUMBER: 70:114982  
TITLE: Synthesis of some hydroxymethyl- and aminomethylindolizines  
AUTHOR(S): Jones, Gurnos; Stanyer, J.  
CORPORATE SOURCE: Univ. Keele, Keele, UK  
SOURCE: Journal of the Chemical Society (Section) C: Organic (1969), (6), 901-5  
CODEN: JSOQAX; ISSN: 0022-4952  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 70:114982  
AB Syntheses are reported of 2-hydroxymethylindolizine 3-hydroxymethylindolizine, and 2-methyl-6-hydroxymethylindolizine. Attempts to prepare 1-hydroxymethyl-2-methylindolizine by reduction of the corresponding ethoxycarbonyl derivative or by a Chichibabin synthesis from a 2-pyridylethanol derivative were unsuccessful, although 1-(2-hydroxyethyl)-2-methylindolizine was so obtained. The very unstable 2-aminomethylindolizine and 7-aminomethyl-2-methylindolizine were obtained by reduction of the corresponding nitriles; attempts to obtain 6-aminomethyl-2-methylindolizine are described.  
IT 22320-25-8P 22320-26-9P 22320-27-0P  
22320-31-6P 22320-34-9P 22320-35-0P  
22320-38-3P 22380-17-2P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
RN 22320-25-8 CAPLUS  
CN 3-Indolizinecarboxylic acid, methyl ester (8CI, 9CI) (CA INDEX NAME)



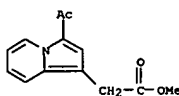
RN 22320-26-9 CAPLUS  
CN 3-Indolizinecarboxylic acid, methyl ester (8CI, 9CI) (CA INDEX NAME)



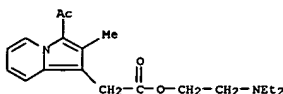
RN 22320-27-0 CAPLUS  
CN 3-Indolizinecarboxamide (8CI) (CA INDEX NAME)



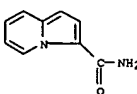
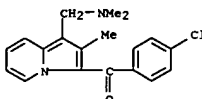
RN 26573-54-6 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-, methyl ester (8CI) (CA INDEX NAME)



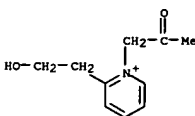
RN 26573-55-7 CAPLUS  
CN 1-Indolizineacetic acid, 3-acetyl-2-methyl-, 2-(diethylamino)ethyl ester (8CI) (CA INDEX NAME)



RN 26615-18-9 CAPLUS  
CN Ketone, p-chlorophenyl 1-[(dimethylamino)methyl]-2-methyl-3-indoliziny (8CI) (CA INDEX NAME)

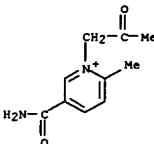


RN 22320-31-6 CAPLUS  
CN Pyridinium, 1-acetonil-2-(2-hydroxyethyl)-, bromide (8CI) (CA INDEX NAME)



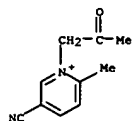
● Br<sup>-</sup>

RN 22320-34-9 CAPLUS  
CN Pyridinium, 5-(aminocarbonyl)-2-methyl-1-(2-oxopropyl)-, bromide (9CI) (CA INDEX NAME)

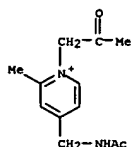


● Br<sup>-</sup>

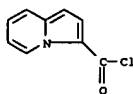
RN 22320-35-0 CAPLUS  
CN 2-Picolinium, 1-acetonil-5-cyano-, bromide (8CI) (CA INDEX NAME)



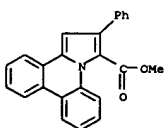
RN 22320-38-3 CAPLUS  
CN Pyridinium, 4-(acetamidomethyl)-1-acetonyl-2-methyl-, bromide (8CI) (CA INDEX NAME)



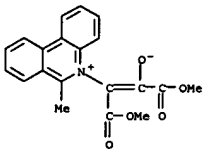
RN 22380-17-2 CAPLUS  
CN 3-Indolizinecarbonyl chloride (8CI, 9CI) (CA INDEX NAME)



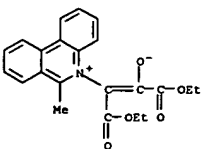
RN 16511-61-8 CAPLUS  
CN Pyrrolo[1,2-f]phenanthridine-3-carboxylic acid, 2-phenyl-, methyl ester (8CI) (CA INDEX NAME)



RN 16511-65-2 CAPLUS  
CN Phenanthridinium, 5-(1,2-dicarboxy-2-hydroxyvinyl)-6-methyl-, hydroxide, inner salt, dimethyl ester (8CI) (CA INDEX NAME)



RN 16511-66-3 CAPLUS  
CN Phenanthridinium, 5-(1,2-dicarboxy-2-hydroxyvinyl)-6-methyl-, hydroxide, inner salt, diethyl ester (8CI) (CA INDEX NAME)



RN 16610-61-0 CAPLUS  
CN Pyrrolo[1,2-f]phenanthridine-2,3-dicarboxylic acid, dimethyl ester (8CI) (CA INDEX NAME)

L15 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1967:508549 CAPLUS  
DOCUMENT NUMBER: 67:108549  
TITLE: Addition reactions of heterocyclic compounds.  
XCVIII.

AUTHOR(S): Synthesis of phenanthridinium-5-vinyl oxides and pyrrolo[1,2-f]phenanthridines  
Acheson, Richard M.; Bailey, Arthur Sydney; Selby, I. A.

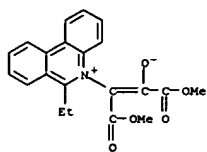
CORPORATE SOURCE: Dyson Perrins Lab. Dep. Iochem., Oxford, UK  
SOURCE: Journal of the Chemical Society [Section] C: Organic (1967), (20), 2066-71  
CODEN: JSOQAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 67:108549

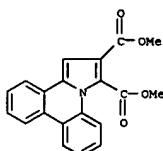
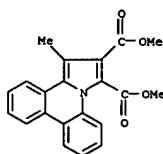
AB cf. CA 67: 82053q. Dimethyl acetylenedicarboxylate and other acetylenic esters add to phenanthridine 5-oxides to give phenanthridinium-5-vinyl oxides (I), which, if a 6-alkyl group is present, readily cyclize to methoxycarbonylpyrrolo[1,2-f]phenanthridines. Hydrolysis and decarboxylation give pyrrolo[1,2-f]phenanthridine (II) and derivs. The N.M.R. spectra of these compds. were partially analyzed. 29 references.

IT 16511-51-6P 16511-58-3P 16511-61-8P  
16511-65-2P 16511-66-3P 16610-61-0P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

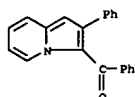
RN 16511-51-6 CAPLUS  
CN Phenanthridinium, 5-(1,2-dicarboxy-2-hydroxyvinyl)-6-ethyl-, hydroxide, inner salt, dimethyl ester (8CI) (CA INDEX NAME)



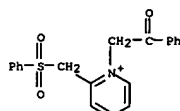
RN 16511-58-3 CAPLUS  
CN Pyrrolo[1,2-f]phenanthridine-2,3-dicarboxylic acid, 1-methyl-, dimethyl ester (8CI) (CA INDEX NAME)



L15 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1967:411420 CAPLUS  
 DOCUMENT NUMBER: 67:11420  
 TITLE: Indolizines. IV. Syntheses from 2-acylmethylene-1-benzyl-1',2'-dihydropyridine, phenyl 2-picoyl sulfone, and related compounds  
 AUTHOR(S): Melton, Timothy; Wibberley, Denman G.; Green, Gosta  
 CORPORATE SOURCE: Sunderland Tech. Coll., Sunderland, UK  
 SOURCE: Journal of the Chemical Society [Section] C: Organic (1967), 167(10), 983-8  
 CODEN: JSOQAX; ISSN: 0022-4952  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 67:11420  
 GI For diagram(s), see printed CA Issue.  
 AB cf. CA 62: 16188g. The scope of a new route to indolizine (I) derivs., which involves ring-closure at the 2-3 positions, was investigated. In this method, suitable 2-acyl- and 2-ethoxycarbonylmethylene-1-benzyl-1,2-dihydropyridines are cyclized to 2-acetoxy-3-aryl-, 2,3-diaryl-, and 2-alkyl-3-aryl-1-acetylindolizines by the action of Ac2O. Preps. of 1-amino- and 1-aminoethylindolizines were continued. Indoliziny sulfones were synthesized from phenyl 2-picoyl sulfone.  
 IT 14759-45-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (mixture with phenyl 2-phenyl-1-indoliziny ketone)  
 RN 14759-45-6 CAPLUS  
 CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)



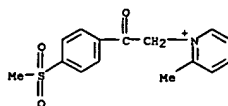
IT 14759-55-8P 14759-57-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 14759-55-8 CAPLUS  
 CN Pyridinium, 1-phenacyl-2-[(phenylsulfonyl)methyl]-, bromide (8CI) (CA INDEX NAME)



● Br<sup>-</sup>

L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1967:18643 CAPLUS  
 DOCUMENT NUMBER: 66:18643  
 TITLE: Synthesis of the benzo[a]- and naphtho[2,3-b]indolizine ring system  
 AUTHOR(S): Augstein, Wolfgang; Kroehneke, Fritz  
 CORPORATE SOURCE: Univ. Giessen, Giessen, Germany  
 SOURCE: Justus Liebigs Annalen der Chemie (1966), 697, 158-70  
 CODEN: JLABCF; ISSN: 0075-4617  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 66:18643  
 GI For diagram(s), see printed CA Issue.  
 AB N-Picrylmethylcyclimonium betaines (I) (prepared, with 1 exception, by quaternization of the appropriate cyclamine with the resp. α-bromoacetophenone) are converted with alkaline agents with cleavage of HNO2 into benzo[a]indolizines (II), whose structure was shown by their mode of formation and by an independent synthesis. II show the characteristic nucleophilic reactivity of the methine group on the N atom of the pyrrole nucleus for indolizines and fluoresce red in uv light. From the analogous (to I)  
 N-(3-chloronaphthoquinon-2-ylmethyl)cyclimonium betaines (III) were formed derivs. of naphtho[2,3-b]indolizine (IV). Fluorescence in uv light was determined in approx. 1:3 HCONMe2 (DMF)-C6H6, unless otherwise stated. A cold (0°) solution or suspension of 20 millimoles appropriate cyclimonium salt in 100 cc. H2O combined under intensive stirring with 4.94 g. picryl chloride in 100 cc. CHCl3 and then with a cold (0°) solution of 5.52 g. K2CO3 in 50 cc. H2O and the mixture stirred 30 min. gave, in several cases, I directly as a precipitate; when I did not sep., the phases were separated, and the CHCl3 layer was diluted with a 4-fold volume ligroine and kept several hrs. at room temperature; pure I were obtained by reprecip. from Me2SO with H2O; the picrates were obtained from solns. of I in Me2SO with picric acid. Without phase separation was obtained after reprecip. 7.6-7.7 g. I (R = R1 = H, Ar = Ph), violet black prisms, m. 154° (explodes), giving deep violet solns.; pictrate, garnet-red prisms, m. 147-8° (decomposition). Without phase separation was obtained 5.4 g. I (R = R1 = H, (ArCO.dblharw.)CN) (V), black prisms, m. 154-5° (decomposition); pictrate, black prisms, m. 154-5° (decomposition). By phase separation, dilution of the CHCl3 layer with ligroine and keeping 3 hrs. at room temperature was obtained after reprecip. 7.4-7.6 g. I (R = Me, R1 = H, Ar = Ph), m. 154-5° (decomposition); pictrate m. 262-4° (decomposition). By phase separation, dilution of the CHCl3 layer with ligroine, and cooling 2 hrs. at -15° was obtained after reprecip. 7.6-7.8 g. I (R = H, R1 = Me, Ar = Ph), m. 140° (explodes); pictrate m. 262-4° (decomposition). After reprecip. was obtained 78-81% I (Ar = Ph, isoquinolinium group instead of pyridinium group), m. 114-16° (decomposition); pictrate m. 106-7° (decomposition). To 10 millimoles appropriate I dissolved or suspended in 30 cc. Me2SO at room temperature was added 1.7 g. piperidine and the mixture kept 3 hrs. with occasional stirring, diluted with 70 cc. approx. 2N AcOH, and kept 1 hr. to give the corresponding

L15 ANSWER 93 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 RN 14759-57-0 CAPLUS  
 CN 2-Picolinium, 1-[p-(methylsulfonyl)phenacyl]-, bromide (8CI) (CA INDEX NAME)



● Br<sup>-</sup>

L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 HCONMe2  
 (DMF) (5 cc./g.), there was obtained 3.48 g. II (Ar = Ph) (VI), m. 268-70° (decompn.), and similarly II [(ArCO.dblharw.)CN] (VII), decompd. >335°, VIII, m. 283° (explodes), IX, m. 276-8° (decompn.), and X, m. 225-7° (decompn.). Appropriate Va (10 millimoles) heated 10 min. in a boiling water bath with 20 cc. concd. H2SO4, the soln. cooled to room temp., dild. with 20 cc. H2O, and cooled to 0°, and the ppt. filtered off on a glass frit and washed with 20 cc. cold (0°) 50% H2SO4 gave >90% BzOH; the filtrate treated with 300 cc. hot H2O with stirring and kept 2 hrs. gave corresponding dinitrobenzo[a]indolizine (Xa), dried at 180° to remove solvent. From VI was obtained after recrystn. from DMF (15 cc./g.) almost quant. 7,9-dinitrobenzo[a]indolizine (XI), almost black prisms, m. 308-10° (decompn.), fluorescing dark red only in soln. 2-o-Tolylpyridine (Fery and van Hove, CA 55, 1604d) (8.46 g.) added dropwise slowly to a mixt. of 11 cc. fuming HNO3 (d. 1.52) and 16 cc. concd. H2SO4 at <100° with stirring, the soln. heated 30 min. on a boiling water bath, cooled to room temp., poured onto 100 g. crushed ice gave 7.6-8.2 g. 4',6'-dinitro-2-o-tolylpyridine (XII), m. 131-3° (ROH). XII (1.29 g.) and 1.26 g. iodine in 5 cc. C5H5N heated 2 hrs. at 115-20° (bath), cooled, dild. with 5 cc. MeOH, treated with 5 cc. 2N NaOH, refluxed 10 min., and cooled, gave 0.3 g. XI. A suspension of 4.04 g. (2,4,6-trinitrobenzyl)pyridinium perchlorate in 100 cc. 50% MeOH heated to boiling, 11 cc. 2N NaOH added, the mixt. heated 30 min. and added to 30 cc. hot H2O with stirring, and the ppt. sepd. by centrifugation gave 2.4-2.5 g. XI. V treated by the general procedure (strong foaming occurred) gave 2.3 g. crude XI. VIII treated by the general procedure (VIII was heated 15 min. with H2SO4) gave 2.58 g. 4-Me deriv. of XI, m. 314-16° (decompn.) (DMF). From IX was similarly obtained 2.56 g. 3-Me deriv. of XI, m. 304-6° (decompn.) (DMF). X treated by the general procedure (only 18 cc. H2O was added in this case) gave 2.78 g. 9,11-dinitrodibenzo[a,g]indolizine, brown violet prisms, decompd. >330° (DMF). XI (1.28 g.) in 5 cc. BzCl boiled 1 min. (HCl evolved), cooled, dild. with 10 cc. MeOH, and cooled 1 hr. at 0° gave 1.48 g. VI. Bz2O can be used in lieu of BzCl. Xa (10 millimoles) in 30 cc. concd. HCl mixed with 30 cc. AcOH, 1.38 g. finely powd. NaNO2 added, and the mixt. heated 30 min. at 50-60°, treated with 0.69 g. NaNO2, heated 30 min., treated while hot with 300 cc. H2O with stirring, and brought to pH 6-6.5 with aq. NaOH gave the 6-nitroso deriv. From XI was obtained after recrystn. from DMF (50 cc./g.) 2.7 g. XIII, dark green prisms, m. 278-80° (decompn.) (sinters above 255°). To PhN2Cl soln. (from 2.04 g. aniline and NaNO2) was added a soln. of 5.14 g. XI in 50 cc. concd. HCl at 10° with stirring and ice cooling, and the mixt. kept 30 min. at 0-10° and kept 2 hrs. at room temp. to give 4.5 g. XIV, m. 253-5° (decompn.) (DMF). To an aq. suspension of the diazonium betaine from 3.73 g. 4-H2NOC6H4SO3H and NaNO2 was added a soln. of 5.14 g. XI in 50 cc. concd. HCl at <10° and worked up and the dye purified by extn. with boiling DMF (3 cc./g.) to give 7.3 g. XV.0.5H2O, red brown powder, m. 246-8° (explodes). XI (2.57 g.) in 50 cc. concd. HCl kept 1 hr. with 7.12 g. granulated Sn and the mixt. refluxed until complete dissoln. of the Sn, cooled to room temp., and dild. with 50 cc. H2O gave (including 0.5 g. product obtained by strong concn. of the filtrate) 4.6-4.8 g. 7,9-diaminobenzo[a]indolizine hexachlorostannate (XVI.H2SnCl6), decompd. >300°, from which XVI could not be obtained by treatment with H2S. In an electrolysis vessel (cathode: Cu gauze, anode: C rod in clay diaphragm with 2N HCl), a

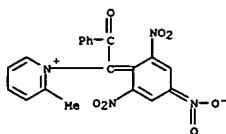
L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)  
 suspension of 5.3 g. XVI.H2SnCl6 in 200 cc. 2N HCl was electrolyzed (4-5 v., 2-5 amp.) with stirring until dissoln. of the complex and Sn was no longer detected in soln.; the soln. evapd., and the residue extd. with boiling MeOH (5 cc./g.) gave 2.4 g. XVI.2HCl, other-colored prisms, m. 303-5° (decompn.) (darkens >250°), fluorescing yellow green in the solid state and in MeOH, sensitive to light. (XVI.2HCl treated with 70% HClO4 gave XVI.HClO4, lemon-yellow prisms, m. 235-7° (decomp.). Addn. of aq. NaOH to aq. solns. of XVI.-2HCl and XVI.HClO4 deposited XVI as orange yellow flakes which could not be isolated because of its great instability. Tetrazotization of XVI.2HCl gave a black polymer, decompd. >350°. XVI.2HCl (1.35 g.) in C5H5N reacted with excess BzCl and dild. with H2O gave 1.28 g. di-Bz deriv. of XVI, yellow leaflets, m. 251-3° (decompn.) (DMF-EtOH). The solns. or suspensions of 20 millimoles appropriate cyclismonium salt in 100 cc. H2O combined with 4.54 g. 2,3-dichloronaphthoquinone in 70 cc. hot CHCl3 and then with 5.52 g. K2CO3 in 50 cc. H2O, the mixt. stirred 30 min., the phases sepd., and the CHCl3 phase dild. with a 5-fold vol. ligroine and kept several hrs. at -15° gave III, rather unstable compds. which could not be recrystd. or reprecipd. without decompn. Thus were obtained 5.7-6.0 g. III (R = H), almost black prisms; 6.8-7.0 g. III (R = Me), violet black powder, m. 85-8° (decompn.); and 6.5-6.8 g. N-(3-chloronaphthoquinon-2-ylphenacyl)isoquinolinium betaine (XVII),

black green prisms. Freshly prepd. III (10 millimoles) suspended in 50 cc. EtOH treated with 10 cc. corresponding cyclamine, the mixt. refluxed on a water bath until the blue green color of the III disappeared, and the ppt. filtered, washed with MeOH and Et2O, and dried at 180° gave corresponding IV. Thus were obtained: from III (R = H) 3.2 g. IV (R =

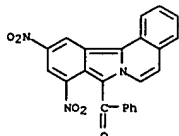
H), red prisms, m. 251-3° (decompn.) (DMF); from III (R = Me) 1.7 g. IV (R = Me), red prisms, m. 236-8° (decompn.); and from XVII 2.0 g. XVIII orange yellow prisms, m. 303-5°. III (R = H) (10 millimoles) suspended in 20 cc. concd. H2SO4 (deep blue color formed at once), the mixt. heated 5-7 min. at 190-210° (bath) (SO2 evolved) and neutralized with strong aq. NaOH, and the ppt. centrifuged, washed with H2O, MeOH, and Et2O gave 1.9 g. presumably XIX, red violet leaflets, m. 405-10° (quinoline); the alk. mother liquor on acidification gave BzOH.

IT 13141-52-1P 13141-55-4P 13141-57-6P  
 13141-58-7P 13141-59-8P 14975-78-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 13141-52-1 CAPLUS  
 CN 2-Picolinium, 1-[α-(2,6-dinitro-4-aci-nitro-2,5-cyclohexadien-1-ylidene)phenacyl]-, hydroxide, inner salt (8CI) (CA INDEX NAME)



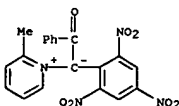
L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



RN 14975-78-1 CAPLUS  
 CN 2-Picolinium, 1-[α-(2,6-dinitro-4-aci-nitro-2,5-cyclohexadien-1-ylidene)phenacyl]-, hydroxide, inner salt, picrate (8CI) (CA INDEX NAME)

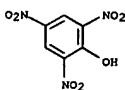
CM 1

CRN 51391-08-3  
 CMF C20 H14 N4 O7



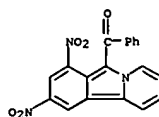
CM 2

CRN 88-89-1  
 CMF C6 H3 N3 O7

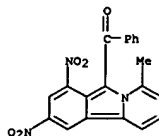


L15 ANSWER 94 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

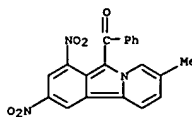
RN 13141-55-4 CAPLUS  
 CN Ketone, 7,9-dinitropyrido[2,1-a]isoindol-6-yl phenyl (8CI) (CA INDEX NAME)



RN 13141-57-6 CAPLUS  
 CN Ketone, 4-methyl-7,9-dinitropyrido[2,1-a]isoindol-6-yl phenyl (8CI) (CA INDEX NAME)



RN 13141-58-7 CAPLUS  
 CN Ketone, 3-methyl-7,9-dinitropyrido[2,1-a]isoindol-6-yl phenyl (8CI) (CA INDEX NAME)



RN 13141-59-8 CAPLUS  
 CN Ketone, 9,11-dinitroisoindolo[1,2-a]isoquinolin-8-yl phenyl (8CI) (CA INDEX NAME)

L15 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 1965:90768 CAPLUS  
 DOCUMENT NUMBER: 62:90768  
 ORIGINAL REFERENCE NO.: 62:16188b-g  
 TITLE: Hydrogenated derivatives of benz[f]- and benz[g]-isoquinolines  
 AUTHOR(S): Urban, R.; Schneider, O.  
 CORPORATE SOURCE: F. Hoffmann-La Roche Co., A.-G., Basel, Switz.  
 SOURCE: Monatshefte fuer Chemie (1965), 96(1), 9-24  
 CODEN: MOCHB7; ISSN: 0026-9247  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 62:90768

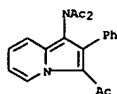
AB Derivs. of hexahydro- and octahydrobenzisoquinoline were synthesized and their analgesic activities determined. Starting with Tetralin, the B-aminoalkyl substituent was introduced according to standard procedures by chloromethylation, treatment of the intermediates with NaCN,

conversion of the formed cyanomethyltetralins with ethyl acetoacetate and NaOEt in EtOH to the corresponding acetyl derivs., acidic hydrolysis of the CN groups of latter compds to ketones and subsequent hydrogenation of the products in the presence of NH3. The α-isomer of the obtained amines, the 1-(2-aminopropyl)-5,6,7,8-tetrahydronaphthalene, n24D 1.5460 (hydrochloride m. 221-3°) was converted into the N-acetyl derivative, m. 127-8°, by dissolving 20 g. of the base in 29 ml. Ac2O and recrystg. the product from Ac2O. Refluxing 2 hrs. a mixture of 23 g. of the acetate, 27 ml. POCl3, and 100 ml. anhydrous C6H6, evaporation of the solvent, dissoln. in EtOH, repeated evaporation, dissoln. of the residue in K2CO3-containing H2O, treatment of the mixture with C6H6, extraction of the free base with 3N HCl, evaporation of the acidic solution, and recrystn. of the hydrochloride from MeOH-Et2O gave 20.5 g. 2,4-dimethyl-1,2,7,8,9,10-hexahydrobenz[f]isoquinoline, hydrochloride m. 273-5°. Catalytic reduction of 50 g. of this compound in 500 ml. Ac2O in the presence of 3 g. PtO2 afforded 40 g.

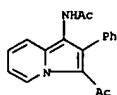
2,4-dimethyl-1,2,3,4,7,8,9,10-octahydrobenz[f]isoquinoline, hydrochloride m. 295-6°. The free base, obtained from 21 g. of the salt, was dissolved in 150 ml. MeOH, mixed with 8.5 ml. 38% CH2O solution and hydrogenated at room temperature in the presence of Raney Ni. Extraction of the product with Et2O, acidification of the solution with alc. HCl, evaporation of the acidic solution, dissoln. of the residue in Me2CO, and precipitation of the product with Et2O gave 13 g. 2,3,4-trimethyl-1,2,3,4,7,8,9,10-octahydrobenz[f]isoquinoline (I), hydrochloride m. 198-9°. Unsubstituted 1,2,3,4,6,7,8,9-octahydrobenz[g]isoquinoline (II) (hydrochloride m. 276-8°), was obtained from 2-(2-aminoethyl)-5,6,7,8-tetrahydronaphthalene by adding a solution of 100 g. of the latter in 1200 ml. Et2O to a mixture of 28 g. LiAlH4 in 600 ml. anhydrous Et2O, agitating

the suspension 1 hr., adding 60 ml. H2O and 1400 ml. 3N NaOH, filtering off the gel-like precipitate, drying the filtrate over Na2SO4, evaporating the

L15 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 solvents, and distg. the residue at 137-9°/10 mm. The  
 B-isomer of the original mixt. of 8-aminoalkylated Tetralin,  
 2-(2-aminopropyl)5,6,7,8-tetrahydronaphthalene, b. 143-6°/13 mm.,  
 n<sub>D</sub>20 1.5420 (hydrochloride m. 216-18°), was converted in 24% yield to  
 3-methyl-1,2,3,4,6,7,8,9-octahydrobenz[glisoquinoline, b.  
 169-70°/7 mm., m. 83-5° (hydrochloride m. 271-3°), by  
 heating a mixt. of 10 g. of the former compd., 40 ml. 38% CH<sub>2</sub>O soln., and  
 120 ml. 2N HCl 6 hrs. at 60°, cooling the soln., and filtering off  
 the pptd. hydrochloride. The cyclization process with POCl<sub>3</sub> was also  
 successfully applied for the prepn. of 1-substituted benz[glisoquinoline  
 compds., which were thus obtained by treatment of the N-acetyl derivs. of  
 the corresponding aminoalkyl derivs. of Tetralin with POCl<sub>3</sub> in C<sub>6</sub>H<sub>6</sub>. The  
 intermediate 3,4,6,7,8,9-hexahydrobenz[glisoquinolines could not be  
 distd. and were therefore directly hydrogenated to the corresponding  
 1,2,3,4,6,7,8,9-octahydrobenz[glisoquinolines.  
 IT 3242-98-6, Diacetamide, N-(3-acetyl-2-phenyl-1-indoliziny)-  
 3242-99-7, Ketone, 1-acetamido-2-phenyl-3-indoliziny methyl  
 3473-95-8, Pyridinium, 2-(acetamidomethyl)-1-phenacyl-, bromide  
 3473-96-9, Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide  
 3473-97-0, Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide,  
 acetate  
 (preparation of)  
 RN 3242-98-6 CAPLUS  
 CN Diacetamide, N-(3-acetyl-2-phenyl-1-indoliziny)- (7CI, 8CI) (CA INDEX  
 NAME)

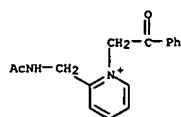


RN 3242-99-7 CAPLUS  
 CN Acetamide, N-(3-acetyl-2-phenyl-1-indoliziny)- (8CI) (CA INDEX NAME)



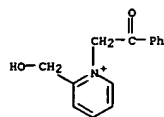
RN 3473-95-8 CAPLUS  
 CN Pyridinium, 2-(acetamidomethyl)-1-phenacyl-, bromide (8CI) (CA INDEX NAME)

L15 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



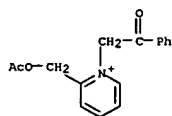
● Br<sup>-</sup>

RN 3473-96-9 CAPLUS  
 CN Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide (8CI) (CA INDEX NAME)



● Br<sup>-</sup>

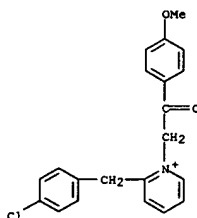
RN 3473-97-0 CAPLUS  
 CN Pyridinium, 2-(hydroxymethyl)-1-phenacyl-, bromide, acetate (8CI) (CA INDEX NAME)



● Br<sup>-</sup>

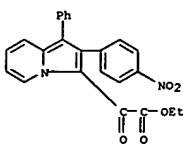
L15 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1965:51497 CAPLUS  
 DOCUMENT NUMBER: 62:51497  
 ORIGINAL REFERENCE NO.: 62:9094a-c  
 TITLE: Arylindolizines. III. Methoxyl and glyoxyl  
 derivatives  
 AUTHOR(S): of several phenylindolizines  
 Venturella, Vincent S.  
 CORPORATE SOURCE: Fordham Univ., New York, NY  
 SOURCE: Journal of Pharmaceutical Sciences (1964), 53(10),  
 1166-9  
 CODEN: JPMSAE; ISSN: 0022-3549  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 62:51497  
 GI For diagram(s), see printed CA Issue.  
 AB cf. CA 60, 501b, 10647f. Derivs. of I (R<sub>2</sub> = H) were prepared  
 2-Benzyl-1-(p-methoxyphenacyl)pyridinium bromide (II) (40 g.) and 1.5 l.  
 saturated NaHCO<sub>3</sub> solution refluxed 6 hrs. and kept at room temperature  
 overnight gave  
 93% I (R = R<sub>2</sub> = H, R<sub>1</sub> = MeO) (III), m. 97-8° (aqueous Me<sub>2</sub>CO). I (R =  
 Cl, R<sub>1</sub> = MeO, R<sub>2</sub> = H) (IV), m. 118-5°, was prepared similarly by  
 cyclization of 2-(p-chlorobenzyl)-1-(p-methoxyphenacyl)pyridinium bromide  
 (V). III and IV refluxed 6 hrs. with 30% HBr-AcOH produced I (R = R<sub>2</sub> =  
 H,  
 R<sub>1</sub> = OH), m. 156-7° (decomposition), and I (R = Cl, R<sub>1</sub> = OH, R<sub>2</sub> = H), m.  
 130-1°, resp. Ethoxalyl derivs. (I) (R<sub>2</sub> = EtO<sub>2</sub>CCO) (VI) were  
 prepared by refluxing for 90 min. the appropriate 1,2-diarylindolizine  
 with  
 1.05 molar equivs. EtO<sub>2</sub>CCOCl in C<sub>6</sub>H<sub>6</sub>. VI refluxed 10 hrs. in 5N NaOH,  
 followed by acidification of the Na salts produced, gave the  
 corresponding  
 carboxycarbonyl compds. 3-Piperidinooxalyl derivs. of I were obtained by  
 refluxing VI in excess piperidine 12 hrs. The following I were prepared  
 (R,  
 R<sub>1</sub>, R<sub>2</sub>, and m.p. given): H, Br, EtO<sub>2</sub>CCO, 190-2°; Cl, NO<sub>2</sub>, EtO<sub>2</sub>CCO,  
 215.5°; Cl, Br, EtO<sub>2</sub>CCO, 179.5°; H, NO<sub>2</sub>, EtO<sub>2</sub>CCO, 193% H,  
 Br, HO<sub>2</sub>CCO, 179°; Cl, NO<sub>2</sub>, HO<sub>2</sub>CCO, 193-5°; Cl, Br, HO<sub>2</sub>CCO,  
 174.5°; H, NO<sub>2</sub>, HO<sub>2</sub>CCO, 168°; H, Br, ZCOCO (Z = piperidino),  
 189°; Cl, NO<sub>2</sub>, ZCOCO, 174°; Cl, Br, ZCOCO, 178.5°; H, H,  
 NO<sub>2</sub>, ZCOCO, 186°. II, m. 241-2° (decomposition) (Me<sub>2</sub>CO), and V,  
 m. 231-2° (decomposition), were prepared by mixing p-methoxyphenacyl  
 bromide at 40° with 2-benzyl- and 2-(p-chlorobenzyl)-pyridine,  
 resp.  
 IT 906-21-8, Pyridinium, 2-(p-chlorobenzyl)-1-(p-methoxyphenacyl)-,  
 bromide 913-62-2, 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl-,  
 ethyl ester 915-43-5, Piperidine, 1-[(2-(p-bromophenyl)-1-phenyl-3-indoliziny]glyoxyloyl]- 915-64-0  
 Piperidine, 1-[(1-(p-chlorophenyl)-2-(p-nitrophenyl)-3-  
 indoliziny]glyoxyloyl]- 981-89-5, 3-Indolizineglyoxylic acid,  
 2-(p-bromophenyl)-1-(p-chlorophenyl)- 986-28-7,  
 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-(p-chlorophenyl)-, ethyl  
 ester 986-29-8, 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-  
 (p-nitrophenyl)- 988-36-3, Piperidine, 1-[(2-(p-bromophenyl)-1-  
 phenyl-3-indoliziny]glyoxyloyl]- 1047-62-7, Pyridinium,  
 2-benzyl-1-(p-methoxyphenacyl)-, bromide 1056-78-6,  
 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl- 1060-65-7  
 , 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-(p-nitrophenyl)-,  
 ethyl  
 ester 1061-71-8, Piperidine, 1-[(2-(p-bromophenyl)-1-(p-

L15 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)  
 chlorophenyl)-3-indoliziny]glyoxyloyl]- 1105-21-1,  
 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-phenyl-, ethyl ester  
 (prepn. of)  
 RN 906-21-8 CAPLUS  
 CN Pyridinium, 2-(p-chlorobenzyl)-1-(p-methoxyphenacyl)-, bromide (8CI) (CA  
 INDEX NAME)

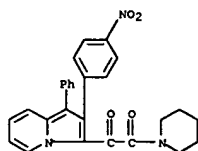


● Br<sup>-</sup>

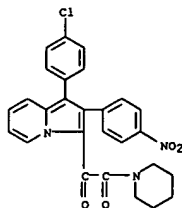
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 CN 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl-, ethyl ester  
 (7CI,  
 8CI) (CA INDEX NAME)



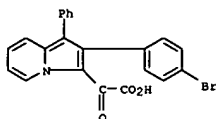
RN 915-43-5 CAPLUS  
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 (7CI, 8CI) (CA INDEX NAME)



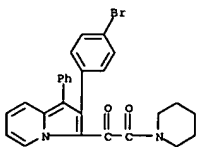
RN 915-64-0 CAPLUS  
CN Piperidine, 1-[[1-(p-chlorophenyl)-2-(p-nitrophenyl)-3-indoliziny]glyoxyloyl]- (7CI, 8CI) (CA INDEX NAME)



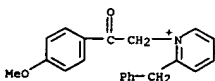
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CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-phenyl- (7CI, 8CI) (CA INDEX NAME)



RN 983-41-5 CAPLUS  
CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-(p-chlorophenyl)- (7CI, 8CI) (CA INDEX NAME)

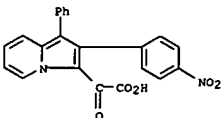


RN 1047-62-7 CAPLUS  
CN Pyridinium, 2-benzyl-1-(p-methoxyphenacyl)-, bromide (8CI) (CA INDEX NAME)

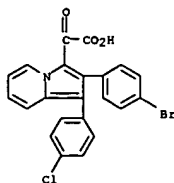


• Br<sup>-</sup>

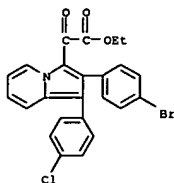
RN 1056-78-6 CAPLUS  
CN 3-Indolizineglyoxylic acid, 2-(p-nitrophenyl)-1-phenyl- (7CI, 8CI) (CA INDEX NAME)



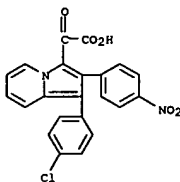
RN 1060-65-7 CAPLUS  
CN 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-(p-nitrophenyl)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



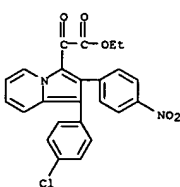
RN 986-28-7 CAPLUS  
CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-(p-chlorophenyl)-, ethyl ester (7CI, 8CI) (CA INDEX NAME)



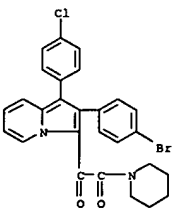
RN 986-29-8 CAPLUS  
CN 3-Indolizineglyoxylic acid, 1-(p-chlorophenyl)-2-(p-nitrophenyl)- (7CI, 8CI) (CA INDEX NAME)



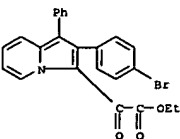
RN 988-36-3 CAPLUS  
CN Piperidine, 1-[[2-(p-bromophenyl)-1-phenyl-3-indoliziny]glyoxyloyl]- (7CI, 8CI) (CA INDEX NAME)



RN 1061-71-8 CAPLUS  
CN Piperidine, 1-[[2-(p-bromophenyl)-1-(p-chlorophenyl)-3-indoliziny]glyoxyloyl]- (7CI, 8CI) (CA INDEX NAME)



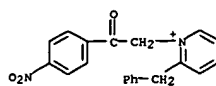
RN 1105-21-1 CAPLUS  
CN 3-Indolizineglyoxylic acid, 2-(p-bromophenyl)-1-phenyl-, ethyl ester (7CI, 8CI) (CA INDEX NAME)





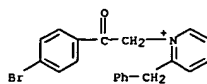
L15 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN  
 ACCESSION NUMBER: 1964:3091 CAPLUS  
 DOCUMENT NUMBER: 60:3091  
 ORIGINAL REFERENCE NO.: 60:501b-g  
 TITLE: Arylindolizines. I. Synthesis and properties of some phenylindolizines  
 AUTHOR(S): Venturella, Vincent S.  
 CORPORATE SOURCE: Abbott Lab., North Chicago  
 SOURCE: Journal of Pharmaceutical Sciences (1963), 52(9), 868-71  
 CODEN: JPMSAE; ISSN: 0022-3549  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable  
 OTHER SOURCE(S): CASREACT 60:3091  
 GI For diagram(s), see printed CA Issue.  
 AB The method of Chichibabin (CA 22, 79) is used to prepare a number of aromatically substituted indolizines for possible psychotropic activity. The appropriate  $\alpha$ -bromoacetophenone and 3 equivs. 2-benzylpyridine was heated to the required temperature on a water bath with constant agitation until solidification occurred. After cooling 2 days, the solid was leached with MeOH or EtOH and recryst. to give the following benzyl-N-phenacylpyridinium bromides (I) [R, R', R'', condensation time (min.), temperature, recrystn. solvent, & yield, and m.p. given]: H, Br, H, 20, 40°, H<sub>2</sub>O, 54, 236-8° (decomposition); H, NO<sub>2</sub>, H, 20, 50°, aqueous MeOH, 85, 211-12.5° (decomposition); Ph, H, H, 35, 60°, aqueous MeOH, 48, 248-51° (decomposition). When 2-(p-chlorobenzyl)pyridine was used some spontaneous cyclization of the intermediate I occurred and these were not purified. The following II were prepared by stirring and refluxing I with saturated NaHCO<sub>3</sub> in MeOH (20 g./500 ml.) JR, R', R'', reflux time (hrs.) recrystn. solvent, & yield, and m.p. given]: H, Br, H, 3, aqueous MeOH, 89, 138-9.5°; H, NO<sub>2</sub>, H, 2, Me<sub>2</sub>CO, 94, 166-7° (decomposition); Ph, H, H, 2, EtOH, 93, 196-7° (decomposition); H, Br, Cl (III), 5, Me<sub>2</sub>CO-H<sub>2</sub>O, 63, 178-80° (decomposition); H, NO<sub>2</sub>, Cl (IV), 7, Me<sub>2</sub>CO-H<sub>2</sub>O, 49, 214-16°, Ph, H, Cl (V), 8, Me<sub>2</sub>CO-H<sub>2</sub>O, 30, 195-6°. Yields of III, IV, and V were based on starting acetophenone. Electrophilic reagents gave rise to 1-substituted indolizines. Thus, 10 ml. BrCl and 4.5 g. II (R = R' = H, R'' = Br) was stirred at 40° for 30 min., diluted with 50 ml. benzene, kept 60 hrs., refluxed 1 hr., then cooled and treated with 60 ml. 40% aqueous NaOH. Evaporation of the washed benzene layers and crystallization from EtOH gave 68% II (R = Br, R' = Br, R'' = H), green needles, m. 196-8°. The dinitrophenylhydrazones (DNP) derivative, formed slowly and in low yield, m. 140-2° (95% EtOH). Similarly prepared were II (R = Br, R' = Br, R'' = Cl) (70%), m. 235-7° (Me<sub>2</sub>CO) [DNP derivative m. 185-7° (70% EtOH)], and II (R = Br, R' = NO<sub>2</sub>, R'' = H) (53%), m. 253-7° [DNP derivative m. 198-201° (decomposition) (EtOH)]. Reduction of 10 g. II (R = H, R' = NO<sub>2</sub>, R'' = H) in 28 g. concentrated HCl and 80 ml. H<sub>2</sub>O with 0.124 mole Sn at 60° over 1.5 hrs. gave 71% II (R = H, R' = NH<sub>2</sub>, R'' = H), m. 153-4.5° (aqueous Me<sub>2</sub>CO). Similarly was prepared II (R = H, R' = NH<sub>2</sub>, R'' = Cl), m. 165-7° (49%) (EtOH-H<sub>2</sub>O).  
 IT 100627-91-6, Pyridinium, 2-benzyl-1-(p-nitrophenacyl)-, bromide  
 100627-95-0, Pyridinium, 2-benzyl-1-(p-bromophenacyl)-, bromide  
 102214-02-8, Ketone, 2-(p-bromophenyl)-1-phenyl-3-indolizinyphenyl  
 102214-07-3, Ketone, 2-(p-nitrophenyl)-1-phenyl-3-

L15 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)  
 indolizinyphenyl 102290-67-5, Ketone, 2-(p-bromophenyl)-1-(p-chlorophenyl)-3-indolizinyphenyl 104424-96-6, Pyridinium, 2-benzyl-1-( $\alpha$ -phenylphenacyl)-, bromide (prepn. of)  
 RN 100627-91-6 CAPLUS  
 CN 2-Benzyl-1-(p-nitrophenacyl)pyridinium bromide (7CI) (CA INDEX NAME)



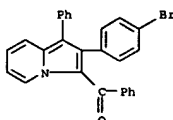
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RN 100627-95-0 CAPLUS  
 CN 2-Benzyl-1-(p-bromophenacyl)pyridinium bromide (7CI) (CA INDEX NAME)



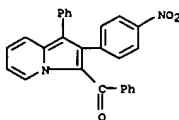
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RN 102214-02-8 CAPLUS  
 CN Ketone, 2-(p-bromophenyl)-1-phenyl-3-indolizinyphenyl (7CI) (CA INDEX NAME)

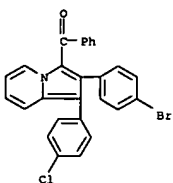


RN 102214-07-3 CAPLUS  
 CN Ketone, 2-(p-nitrophenyl)-1-phenyl-3-indolizinyphenyl (7CI) (CA INDEX NAME)

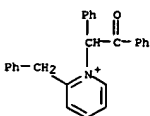
L15 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



RN 102290-67-5 CAPLUS  
 CN Ketone, 2-(p-bromophenyl)-1-(p-chlorophenyl)-3-indolizinyphenyl (7CI) (CA INDEX NAME)



RN 104424-96-6 CAPLUS  
 CN 2-Benzyl-1-( $\alpha$ -phenylphenacyl)pyridinium bromide (7CI) (CA INDEX NAME)



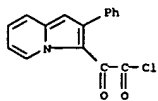
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L15 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN  
 ACCESSION NUMBER: 1959:67723 CAPLUS  
 DOCUMENT NUMBER: 53:67723  
 ORIGINAL REFERENCE NO.: 53:12289c-1  
 TITLE: Aminoalkylpyrrocolines  
 AUTHOR(S): Ames, D. E.; Grey, T. F.; Jones, W. A.  
 CORPORATE SOURCE: Parke, Davis & Co., Ltd., Hounslow, UK  
 SOURCE: Journal of the Chemical Society (1959) 620-2  
 CODEN: JCSOAS; ISSN: 0368-1769  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable  
 OTHER SOURCE(S): CASREACT 53:67723  
 AB (COC)2 (25 g.) added gradually to 30 g. 2-phenylpyrrocoline (Borrows, et al., C.A. 41, 1656b) in 50 cc. Et<sub>2</sub>O and 300 cc. C<sub>6</sub>H<sub>6</sub>, kept 4 hrs. at room temperature, the precipitate filtered off, and recrystd. from C<sub>6</sub>H<sub>6</sub>-petr. ether gave 75%  
 2-phenyl-3-pyrrocolinyglyoxylyl chloride (I), m. 110-14° (decomposition). Me<sub>2</sub>NH passed into 15 g. I in 250 cc. C<sub>6</sub>H<sub>6</sub> with stirring and cooling, the mixture kept 2 hrs. at room temperature, the precipitate filtered off, taken up in 100 cc. CHCl<sub>3</sub>, the solution washed with 2N aqueous NaOH and H<sub>2</sub>O, dried, evaporated, and the residue recrystd. from MeOCH<sub>2</sub>CH<sub>2</sub>OH gave 11 g. N,N-dimethyl-2-phenyl-3-pyrrocolinyglyoxylamide (II), m. 198-200°, 1 (EtOH) 2350 (e 22,600), 2650 (e 16,900), and 3810 A. (e 17,400). Similarly was prepared 2-phenyl-3-pyrrocolinyglyoxylamide, m. 178-81° (EtOAc). II (4.6 g.) in 100 cc. dry tetrahydrofuran (III) reduced by adding gradually to 2 g. LiAlH<sub>4</sub> in 100 cc. III at room temperature gave 0.25 g. 3-(2-dimethylamino-1-hydroxyethyl)-2-phenylpyrrocoline, m. 112-15° (MeOH). Et 3-(2-pyridyl)propionate (Clemo, et al., C.A. 30, 18018) (10 g.) and 11.1 g. BrCH<sub>2</sub>Br (IV) in 25 cc. Me<sub>2</sub>CO set aside 1 hr., refluxed 1.5 hrs., cooled, and the product crystallized from EtAc-EtOH gave  
 2-(2-carbethoxyethyl)-1-phenacylpyridinium bromide (V), m. 154-5°. Efforts to cyclize V with aqueous NaHCO<sub>3</sub> were unsuccessful. 3-(2-Pyridyl)propionamide (8.2 g.) and 11 g. IV in 150 cc. EtAc refluxed 8.5 hrs., the supernatant liquor decanted from the gummy residue (VII), VI boiled with 100 cc. H<sub>2</sub>O, the hot aqueous extract filtered (C); 40 g. NaHCO<sub>3</sub> added to the filtrate, and the mixture cooled gave 3.8 g. 2-phenyl-1-pyrrocolinyllacetamide (VIII), m. 168-70° (EtAc). VII (2.8 g.) reduced with 1.0 g. LiAlH<sub>4</sub> in 100 cc. Et<sub>2</sub>O (6 hrs. Soxhlet extraction) and the product treated with MeOH-picric acid gave 1-(2-aminoethyl)-2-phenylpyrrocoline dipicrate, m. 135-6° (aqueous EtOH). KOH (48 g.) in 630 cc. PhCH<sub>2</sub>OH and 130 cc. PhMe refluxed until all H<sub>2</sub>O was removed (Dean-Stark apparatus), 48 g. 4-chloro-2,6-dimethylpyridine added, the mixture heated 2 hrs. at 210° (bath temperature), the solution cooled, poured into H<sub>2</sub>O, extracted with EtOAc, and the extract fractionated gave 4-benzyloxy analog (VIII), b.p. 130°, n<sub>D</sub> 1.5653. VIII (15 g.) and 14.5 g. IV in 75 cc. BuOH kept overnight at room temperature, heated 5 hrs. on a steam bath, evaporated in vacuo, the gum triturated with Me<sub>2</sub>CO, the solid (2.7 g.) collected, and recrystd. from EtOH gave 4-hydroxy-2,6-dimethyl-1-phenacylpyridinium bromide, (IX), m. 214-15°; evaporation off the Me<sub>2</sub>CO

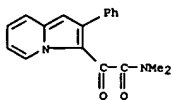
L15 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)  
 filtrate gave a gum (X) from which the benzyloxy compd. could not be isolated. IX warmed with aq. NaHCO<sub>3</sub>, cooled, the ppt. filtered off, and recrystd. from C<sub>6</sub>H<sub>6</sub>-petr. ether gave 2,6-dimethyl-1-phenacyl-4-pyridone, m. 103-4°, λ (EtOH) 2450 Å. (ε 14,200). X boiled with 300 cc. H<sub>2</sub>O while 35 g. Na<sub>2</sub>CO<sub>3</sub> was added in portions, cooled, extd. with Et<sub>2</sub>O, the exts. washed with H<sub>2</sub>O, dried, evapd., and the residue triturated with C<sub>6</sub>H<sub>6</sub>-petr. ether gave 0.4 g. 7-benzyloxy-2-phenylpyrrocoline (XI), on recrystn. m. 152-3°, λ (EtOH) 2600 Å. (ε 27,100). The low yield of XI prevented its use in further synthesis.

IT 101081-39-4, 3-Indolizineglyoxyloyl chloride, 2-phenyl-  
 101731-37-7, 3-Indolizineglyoxylamide, N,N-dimethyl-2-phenyl-  
 102016-11-5, 3-Indolizinemethanol, α-(dimethylaminomethyl)-2-phenyl-  
 109597-86-6, Pyridinium, 4-hydroxy-2,6-dimethyl-1-phenacyl-, bromide 109599-67-9, Pyridinium, 2-(2-carboxyethyl)-1-phenacyl-, bromide, ethyl ester 856783-43-2, 3-Indolizineglyoxylamide, 2-phenyl-  
 (preparation of)

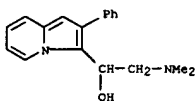
RN 101081-39-4 CAPLUS  
 CN 3-Indolizineglyoxyloyl chloride, 2-phenyl- (6CI) (CA INDEX NAME)



RN 101731-37-7 CAPLUS  
 CN 3-Indolizineglyoxylamide, N,N-dimethyl-2-phenyl- (6CI) (CA INDEX NAME)

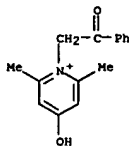


RN 102016-11-5 CAPLUS  
 CN 3-Indolizinemethanol, α-(dimethylaminomethyl)-2-phenyl- (6CI) (CA INDEX NAME)



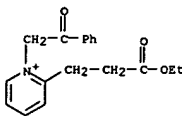
RN 109597-86-6 CAPLUS  
 CN 4-Hydroxy-2,6-dimethyl-1-phenacylpyridinium bromide (6CI) (CA INDEX NAME)

L15 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



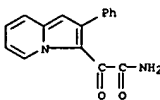
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RN 109599-67-9 CAPLUS  
 CN 2-(2-Carboxyethyl)-1-phenacylpyridinium bromide, ethyl ester (6CI) (CA INDEX NAME)



● Br<sup>-</sup>

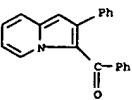
RN 856783-43-2 CAPLUS  
 CN 3-Indolizineglyoxylamide, 2-phenyl- (6CI) (CA INDEX NAME)



L15 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN  
 ACCESSION NUMBER: 1947:29275 CAPLUS  
 DOCUMENT NUMBER: 41:29275  
 ORIGINAL REFERENCE NO.: 41:5879h-1, 5880a-b  
 TITLE: Pyrrocolines. V. The action of Grignard reagents and of iodine on 3-acetyl-2-phenylpyrrocoline  
 AUTHOR(S): Borrows, E. T.; Holland, D. O.  
 CORPORATE SOURCE: Battersea Polytech., London  
 SOURCE: Journal of the Chemical Society (1947) 670-2  
 CODEN: JCSOA9; ISSN: 0368-1769  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable  
 OTHER SOURCE(S): CASREACT 41:29275  
 AB cf. C.A. 41, 1659a. 3-Acetyl-2-phenylpyrrocoline (I) (8 g.) in 25 cc. ether, added dropwise to 1.5 mols. EtMgBr in ether and the mixture stirred an addnl. 25 min., gives 13.44 g. of a buff solid (II), C<sub>18</sub>H<sub>18</sub>ONBrMg; the residue from the filtrate on hydrolysis gives 0.74 g. 2-phenylpyrrocoline (III) and a trace of EtAc; II on decomposition with H<sub>2</sub>O gives 62% III and EtAc. The EtOH solution with picric acid gives the picrate of III. PhMgBr, PhMgI, or PhLi gives results and yields parallel with those from EtMgBr. 3-Benzoyl-2-phenylpyrrocoline (IV) with MeMgBr or EtMgBr forms metallic complexes which give no indication of the presence of C-Mg linkages and on hydrolysis give 74% IV and 15% III. These complexes are probably coordinate compds. of the type =COMgRX. I (2.35 g.) and 2.54 g. iodine in 60 cc. absolute EtOH, refluxed 1 hr., give 2.3 g. 1,3-diiodo-2-phenylpyrrocoline-HI, iridescent bronze, m. 203° (decomposition); 0.5 g. I, 0.5 g. iodine, and 0.1 g. anhydrous AcONa in 15 cc. absolute EtOH, refluxed 2 hrs., give 63% of the 1-iodo derivative of I, yellow, m. 114-16°. 1,3-Diacetyl-2-phenylpyrrocoline does not react with iodine under these conditions. BzCH<sub>2</sub>Br and 2-(2-hydroxypropyl)pyridine give 90% 1-phenacyl-2-(2-hydroxypropyl)pyridinium bromide, characterized as the chloroplatinate, buff, m. 225° (decomposition); alkali gives only III. 2-(2-Ketopropyl)pyridine and BzCH<sub>2</sub>Br give only a small yield of quaternary product and the crude reaction mixture gives small quantities of III.

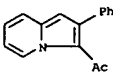
IT 14759-45-6, Ketone, phenyl 2-phenyl-3-pyrrocolinyl  
 38320-58-0, Ketone, methyl 2-phenyl-3-pyrrocolinyl  
 189569-42-4, Pyrrocoline, 1,3-diacetyl-2-phenyl-  
 855626-01-6, Ketone, 1-iodo-2-phenyl-3-pyrrocolinyl methyl  
 (preparation of)

RN 14759-45-6 CAPLUS  
 CN Methanone, phenyl(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)

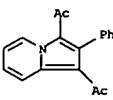


RN 38320-58-0 CAPLUS  
 CN Ethanone, 1-(2-phenyl-3-indoliziny)- (9CI) (CA INDEX NAME)

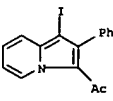
L15 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



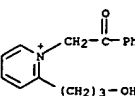
RN 189569-42-4 CAPLUS  
 CN Ethanone, 1,1'-(2-phenyl-1,3-indolizinediyl)bis- (9CI) (CA INDEX NAME)



RN 855626-01-6 CAPLUS  
 CN Ketone, 1-iodo-2-phenyl-3-pyrrocolinyl methyl (5CI) (CA INDEX NAME)



IT 710268-99-8, Pyridinium, 2-(3-hydroxypropyl)-1-phenacyl-  
 (salts)  
 RN 710268-99-8 CAPLUS  
 CN Pyridinium, 2-(3-hydroxypropyl)-1-(2-oxo-2-phenylethyl)- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

507.73

1048.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-74.25

-74.25

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